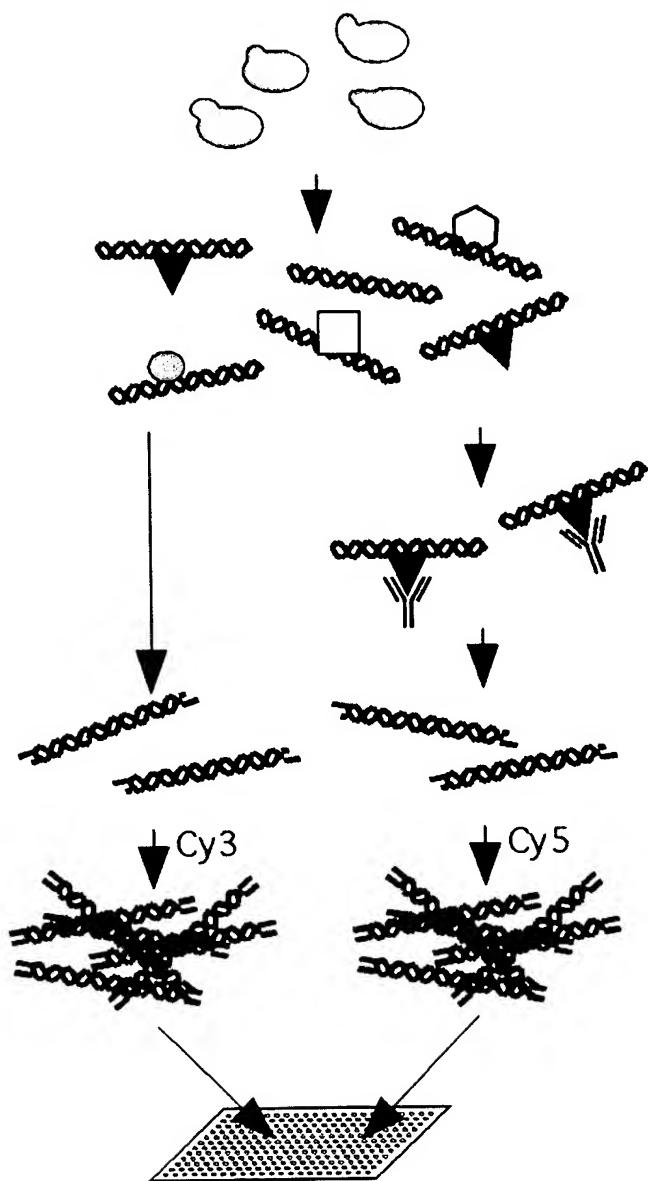


FIGURE 1



Crosslink protein to DNA  
in vivo with formaldehyde

Break open cells and  
shear DNA

Immunoprecipitate

Reverse-crosslinks,  
blunt DNA and ligate  
to unidirectional linkers

LM-PCR

Hybridize to array

FIGURE 1

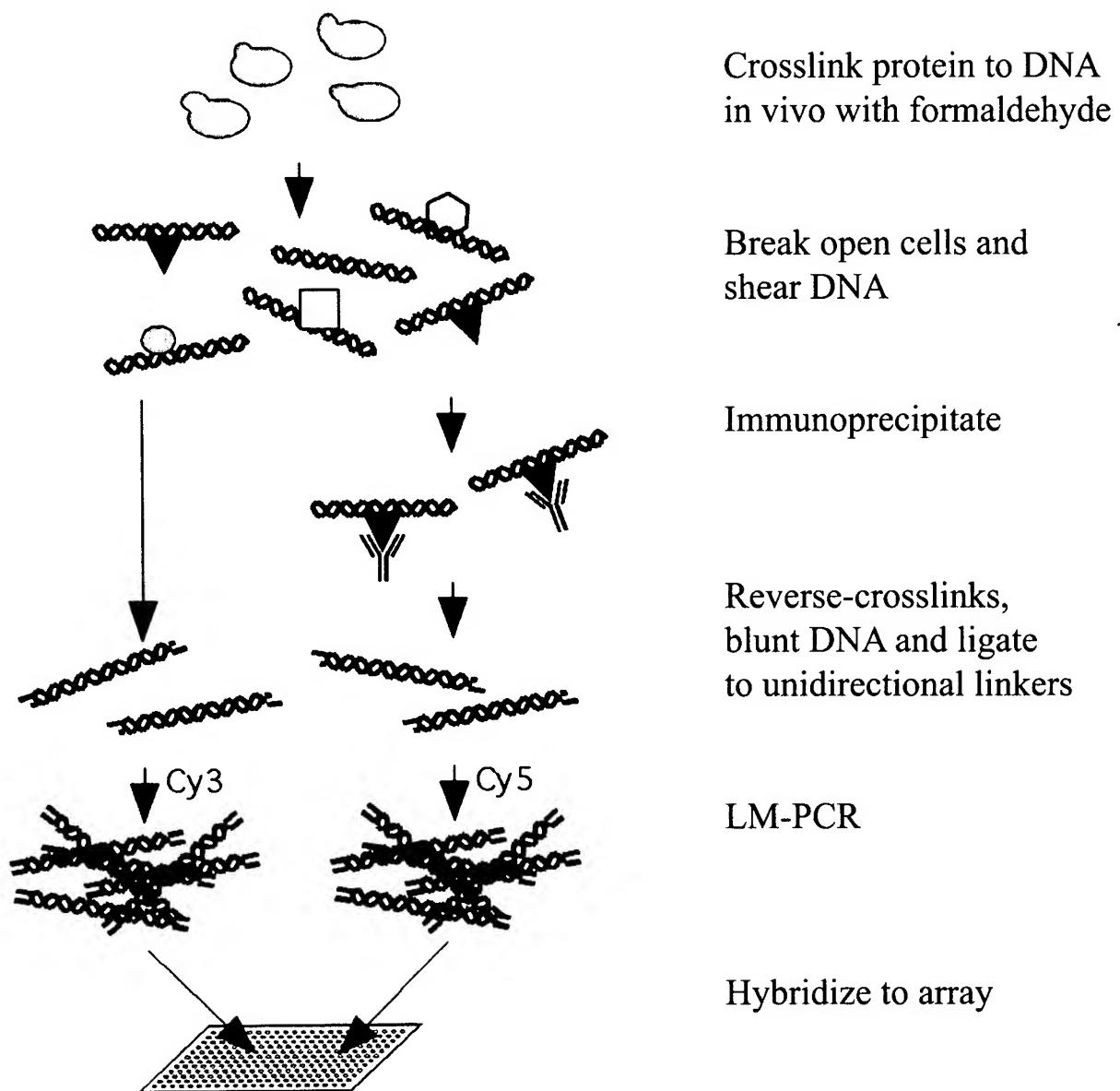
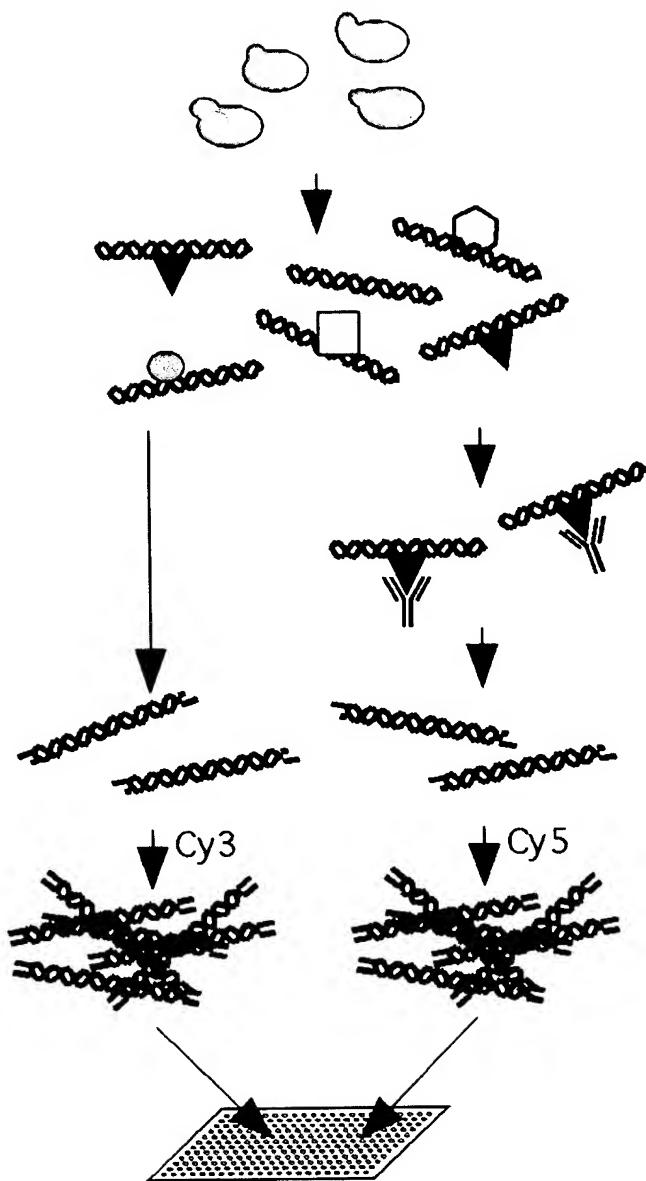


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FIGURE 1

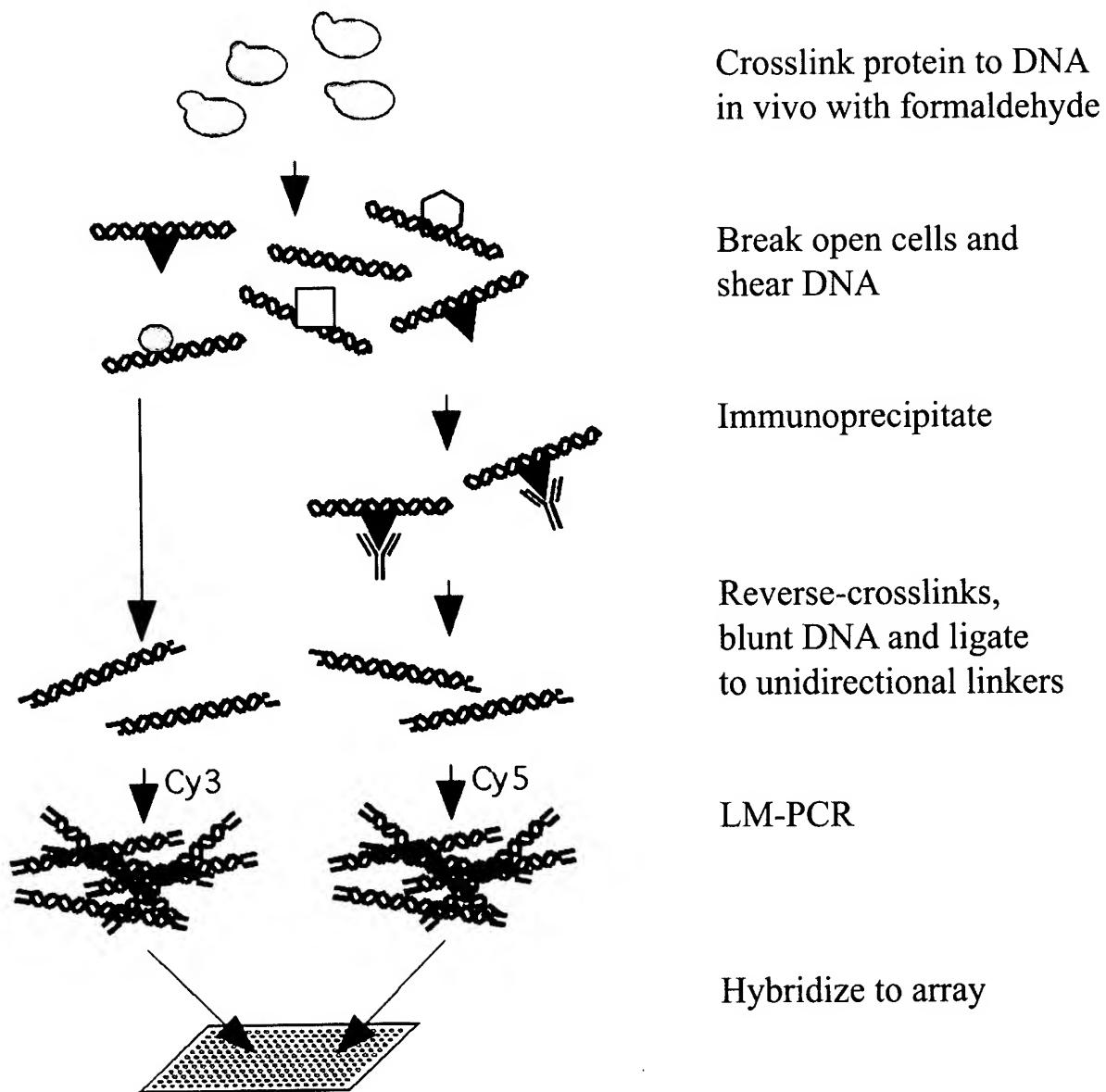
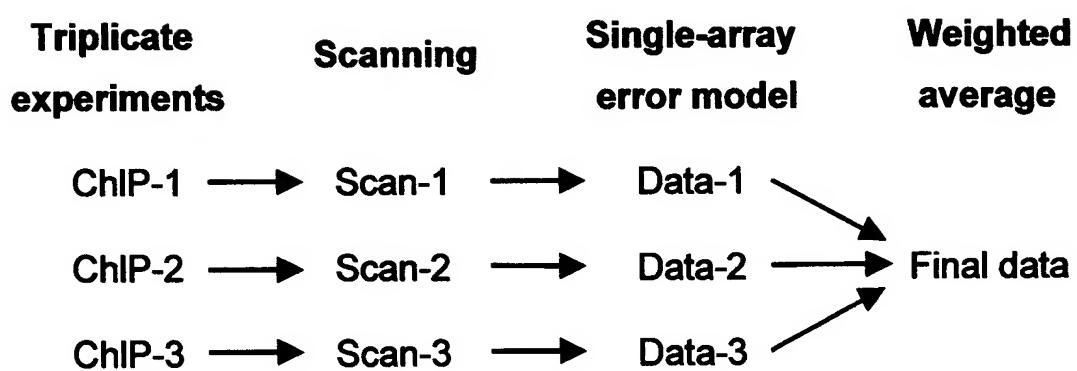


FIGURE 1



**FIGURE 2**

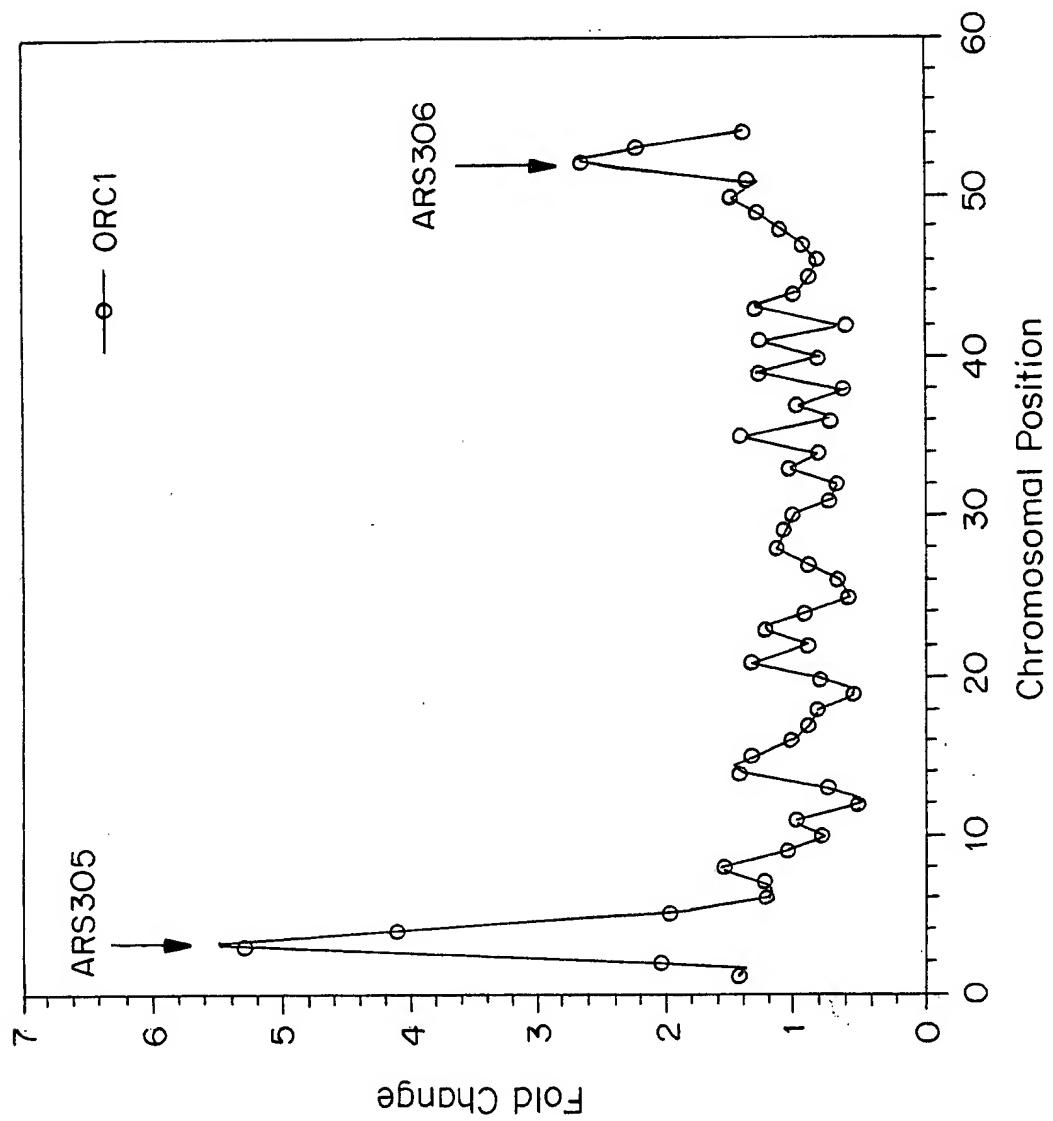


FIG. 3

App No.: 10/032,281

10032281 - 060602

Title: Genome-Wide Location and Function...

Inventor(s): John Wyrick, et al.

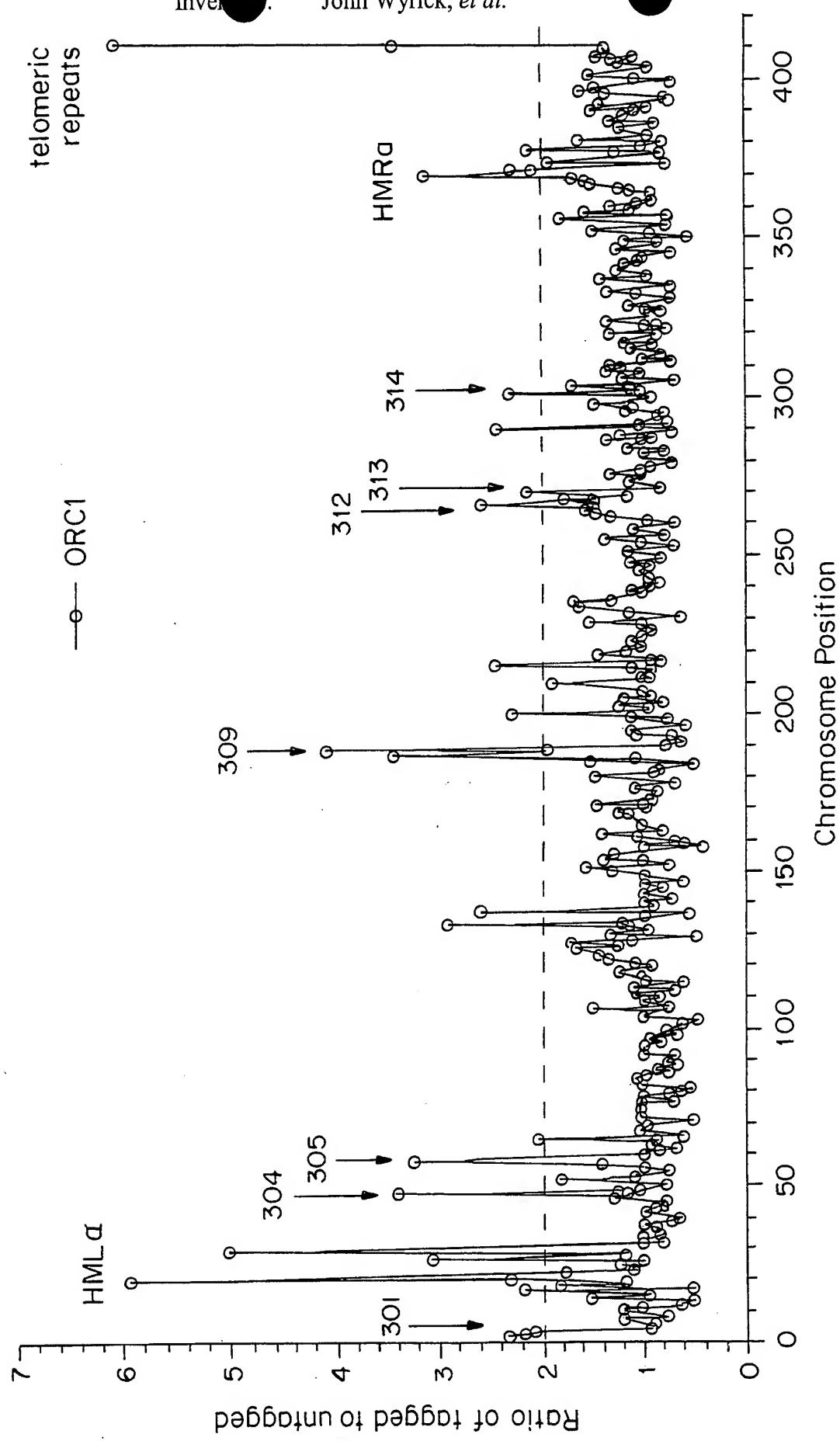


FIG. 4

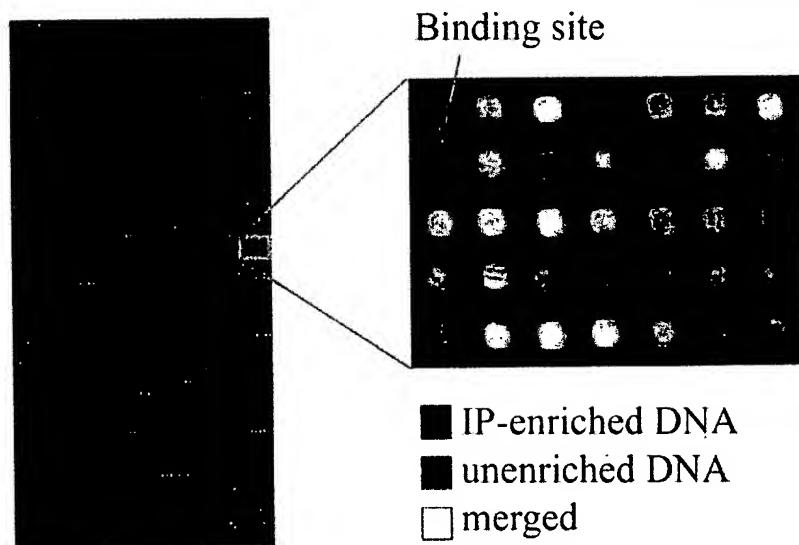


FIGURE 5A

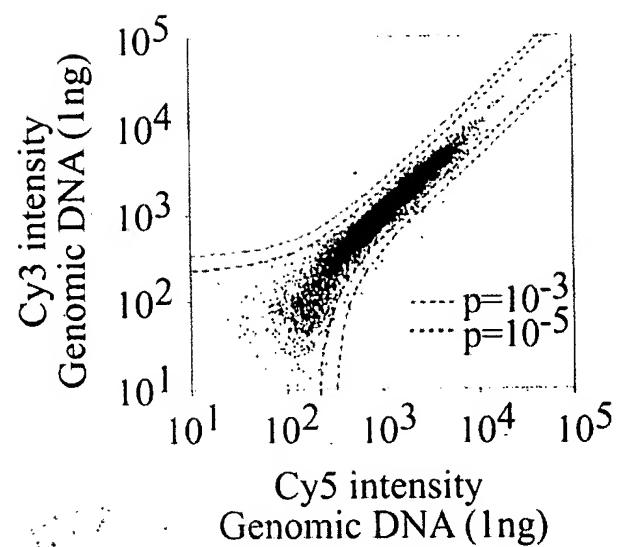


FIGURE 5B

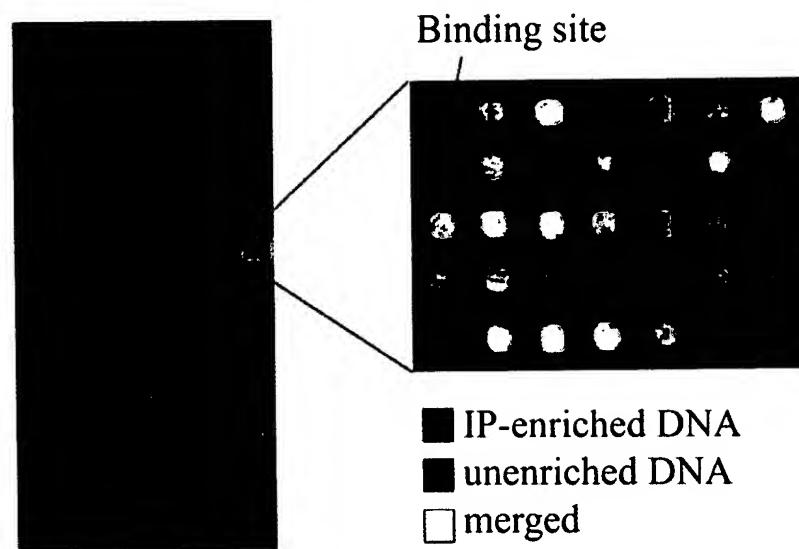


FIGURE 5A

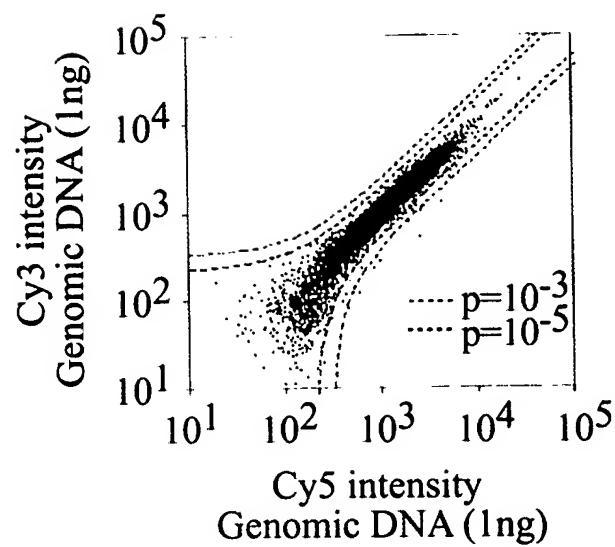


FIGURE 5B

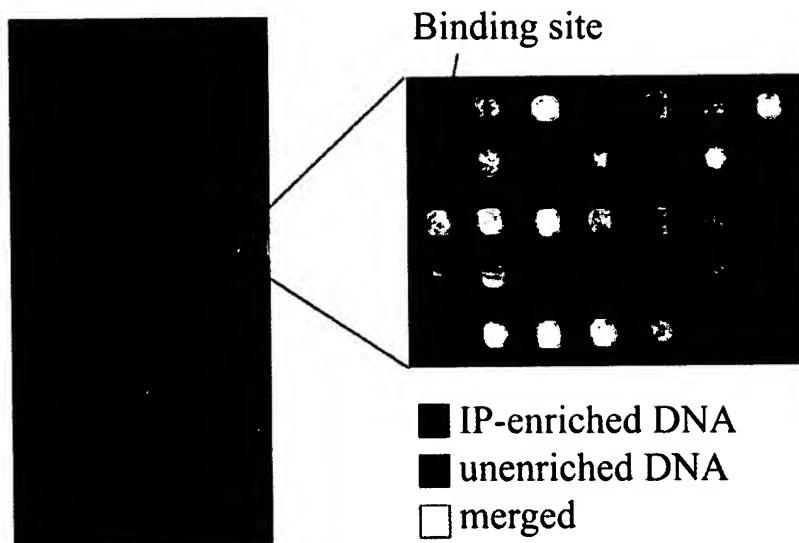


FIGURE 5A

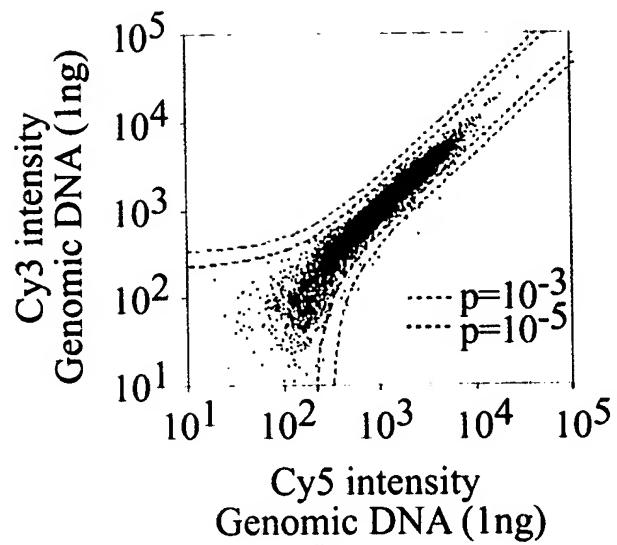


FIGURE 5B

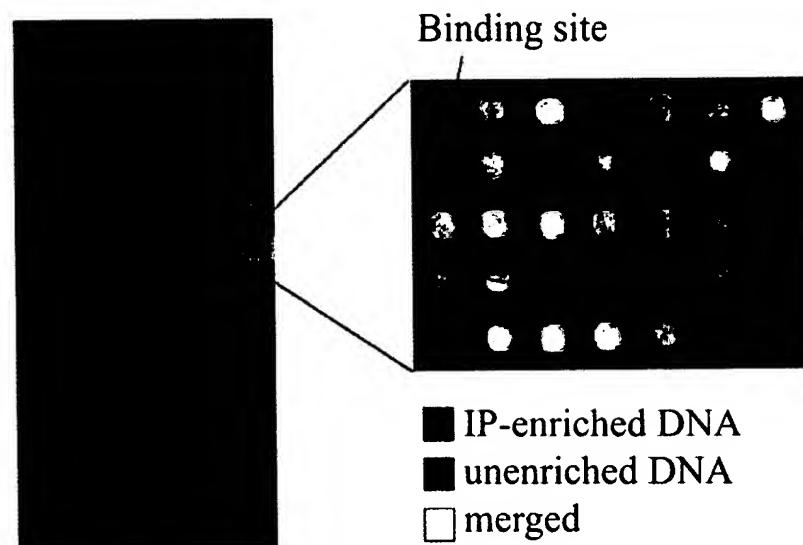


FIGURE 5A

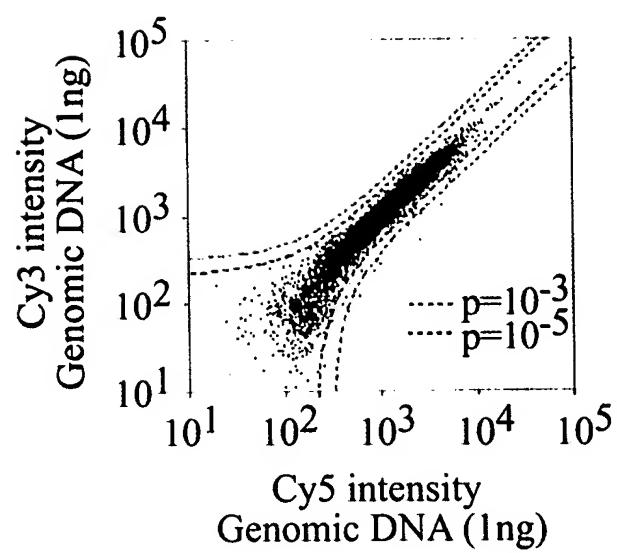
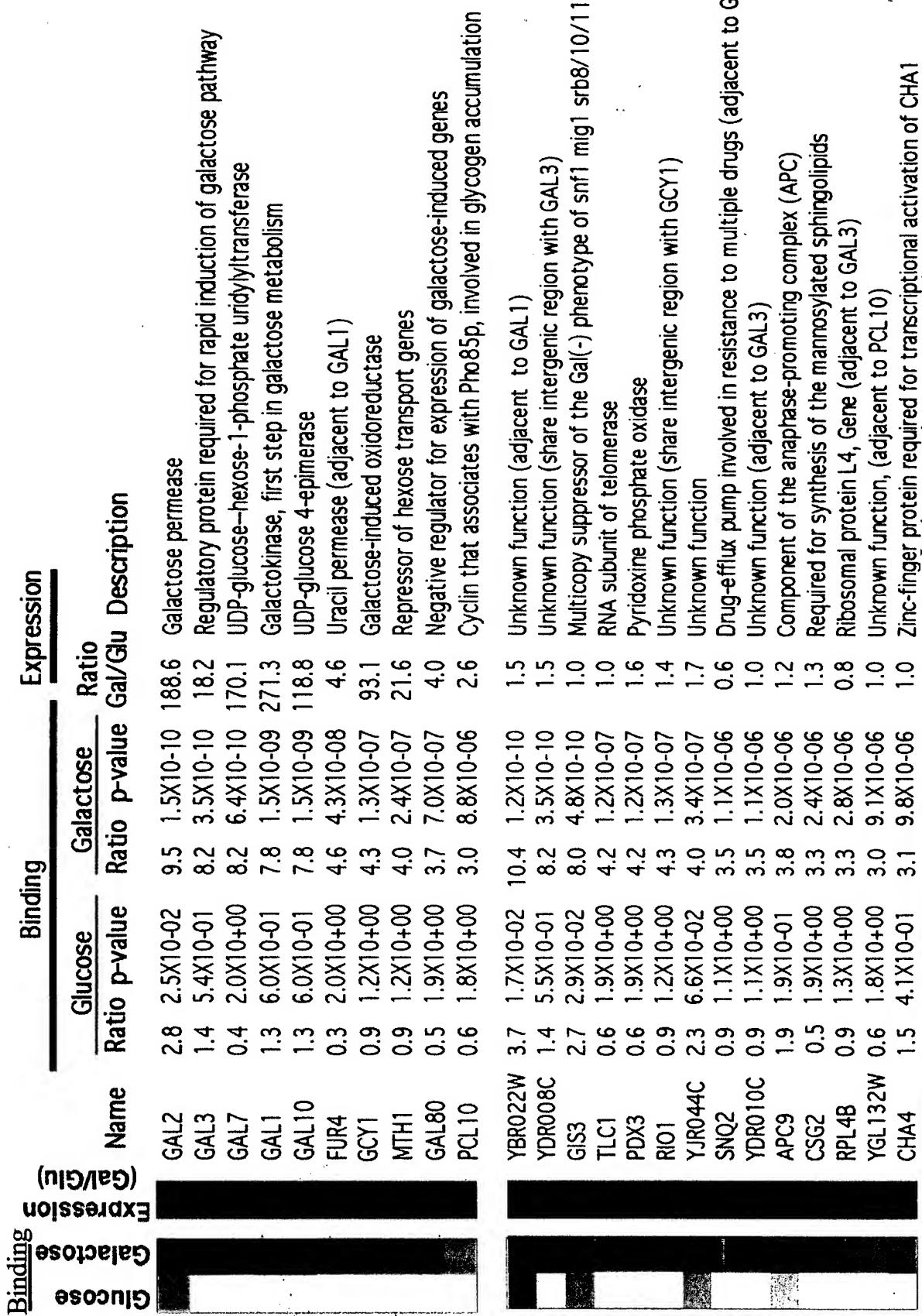


FIGURE 5B



1:1

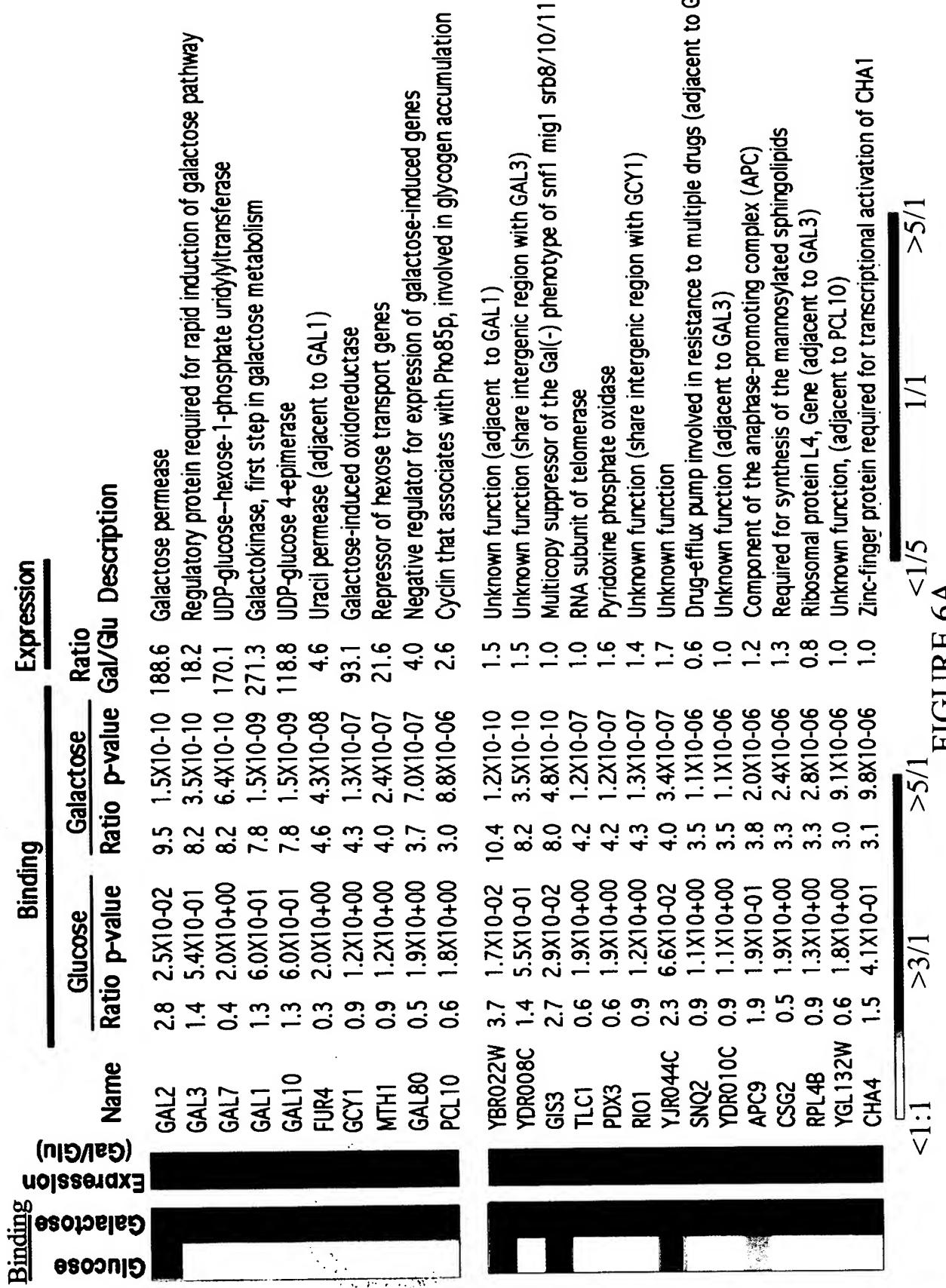
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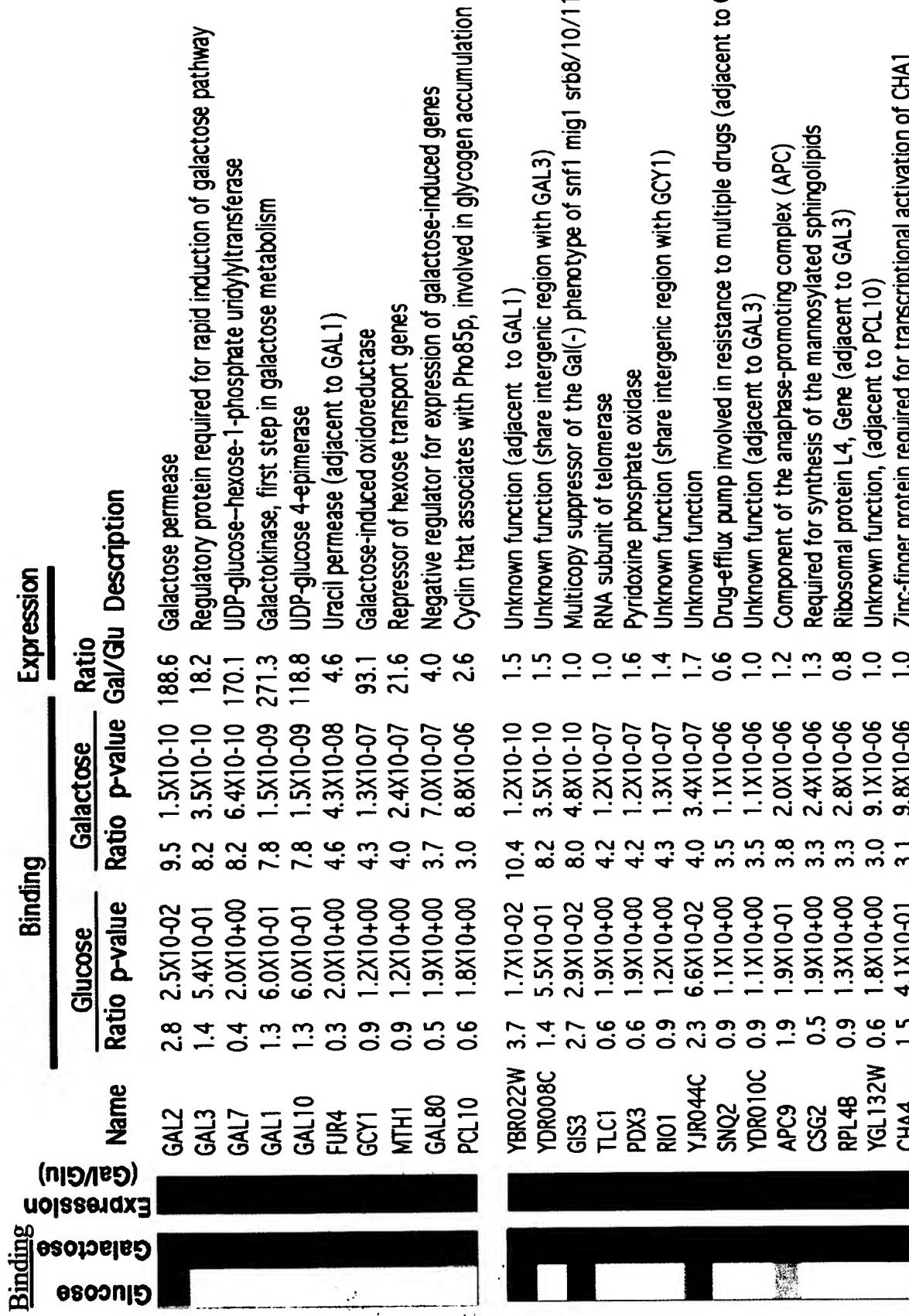
1/1

>5/1

Name	Binding		Expression		Ratio p-value	Gal/Glu Ratio	Gal/Glu Ratio p-value	Description
	Glucose	Galactose	Glucose	Galactose				
GAL2	2.8	2.5X10-02	9.5	1.5X10-10	188.6	Galactose permease		
GAL3	1.4	5.4X10-01	8.2	3.5X10-10	18.2	Regulatory protein required for rapid induction of galactose pathway		
GAL7	0.4	2.0X10+00	8.2	6.4X10-10	170.1	UDP-glucose–hexose-1-phosphate uridylyltransferase		
GAL1	1.3	6.0X10-01	7.8	1.5X10-09	271.3	Galactokinase, first step in galactose metabolism		
GAL10	1.3	6.0X10-01	7.8	1.5X10-09	118.8	UDP-glucose 4-epimerase		
FUR4	0.3	2.0X10+00	4.6	4.3X10-08	4.6	Uracil permease (adjacent to GAL1)		
GCY1	0.9	1.2X10+00	4.3	1.3X10-07	93.1	Galactose-induced oxidoreductase		
MTH1	0.9	1.2X10+00	4.0	2.4X10-07	21.6	Repressor of hexose transport genes		
GAL80	0.5	1.9X10+00	3.7	7.0X10-07	4.0	Negative regulator for expression of galactose-induced genes		
PCL10	0.6	1.8X10+00	3.0	8.8X10-06	2.6	Cyclin that associates with Pho85p, involved in glycogen accumulation		
YBR022W	3.7	1.7X10-02	10.4	1.2X10-10	1.5	Unknown function (adjacent to GAL1)		
YDR008C	1.4	5.5X10-01	8.2	3.5X10-10	1.5	Unknown function (share intergenic region with GAL3)		
GIS3	2.7	2.9X10-02	8.0	4.8X10-10	1.0	Multicopy suppressor of the Gal(-) phenotype of snf1 mig1 srb8/10/11 cells		
TLC1	0.6	1.9X10+00	4.2	1.2X10-07	1.0	RNA subunit of telomerase		
PDX3	0.6	1.9X10+00	4.2	1.2X10-07	1.6	Pyridoxine phosphate oxidase		
RIO1	0.9	1.2X10+00	4.3	1.3X10-07	1.4	Unknown function (share intergenic region with GCY1)		
YJR044C	2.3	6.6X10-02	4.0	3.4X10-07	1.7	Unknown function		
SNQ2	0.9	1.1X10+00	3.5	1.1X10-06	0.6	Drug-efflux pump involved in resistance to multiple drugs (adjacent to GAL3)		
YDR010C	0.9	1.1X10+00	3.5	1.1X10-06	1.0	Unknown function (adjacent to GAL3)		
APC9	1.9	1.9X10-01	3.8	2.0X10-06	1.2	Component of the anaphase-promoting complex (APC)		
CSG2	0.5	1.9X10+00	3.3	2.4X10-06	1.3	Required for synthesis of the mannosylated sphingolipids		
RPL4B	0.9	1.3X10+00	3.3	2.8X10-06	0.8	Ribosomal protein L4, Gene (adjacent to GAL3)		
YGL132W	0.6	1.8X10+00	3.0	9.1X10-06	1.0	Unknown function, (adjacent to PCL10)		
CHA4	1.5	4.1X10-01	3.1	9.8X10-06	1.0	Zinc-finger protein required for transcriptional activation of CHA1		

<1:1 >3/1 >5/1 <1/5 >5/1 FIGURE 6A >1/1 >5/1 >5/1





<1:1 >3:1 >5:1 >1/5 >5:1 >1/5 >5:1  
 FIGURE 6A

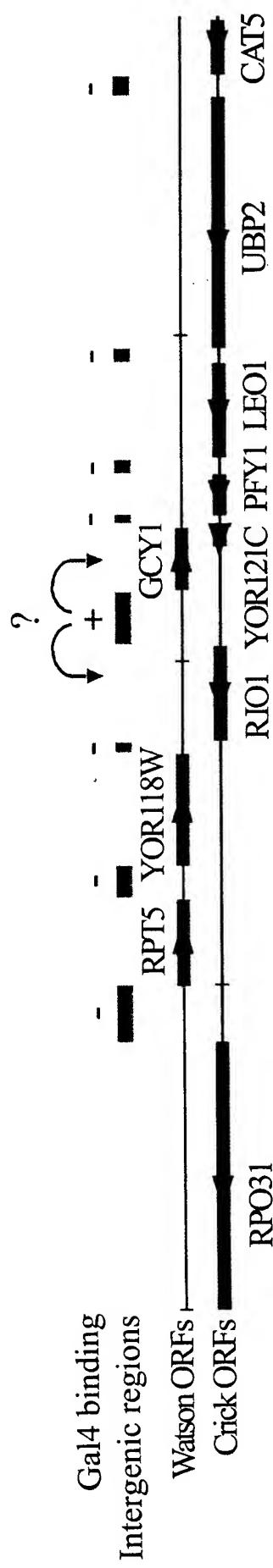


FIGURE 6B

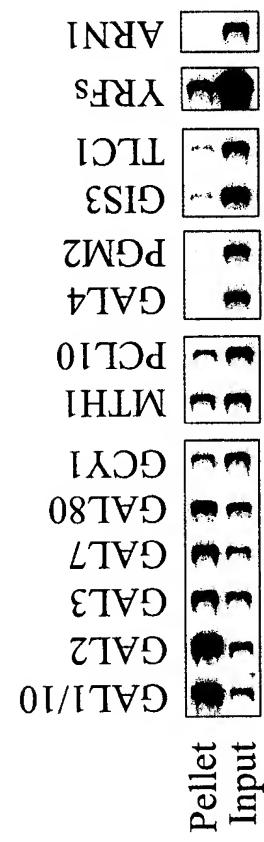


FIGURE 6C

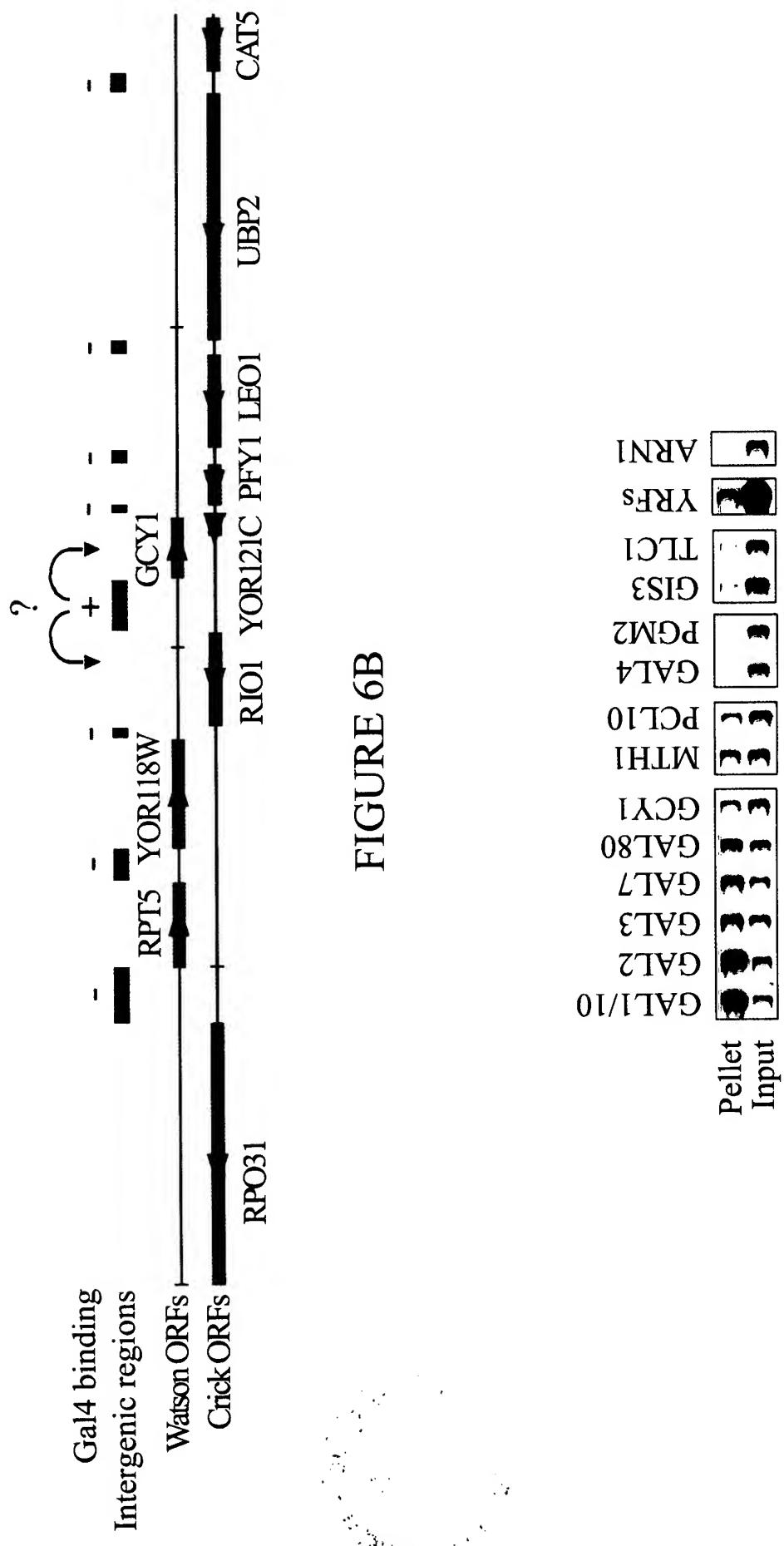


FIGURE 6B

FIGURE 6C

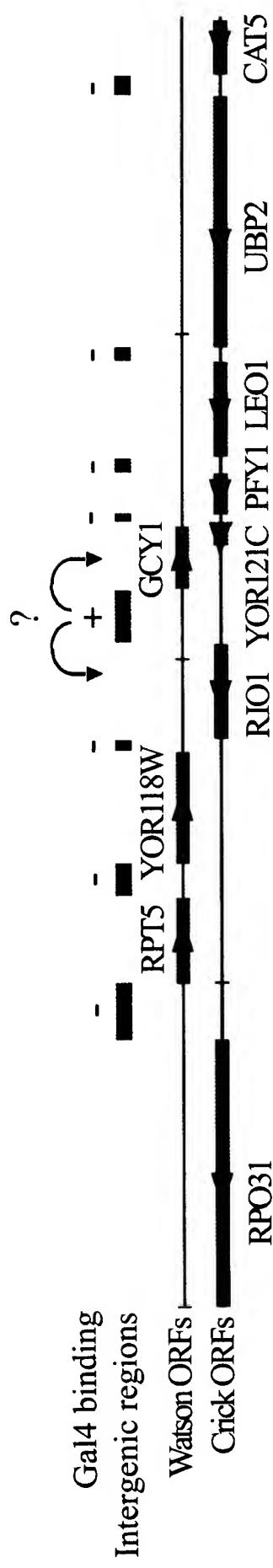


FIGURE 6B

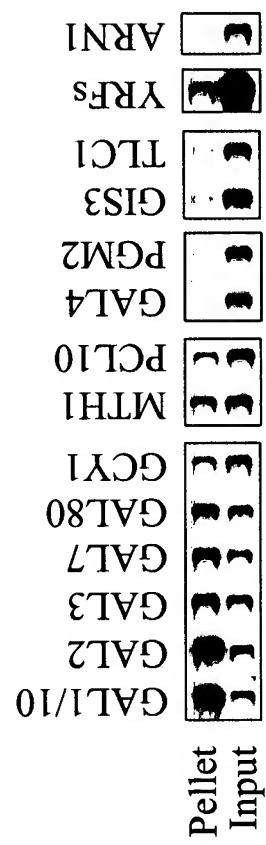


FIGURE 6C

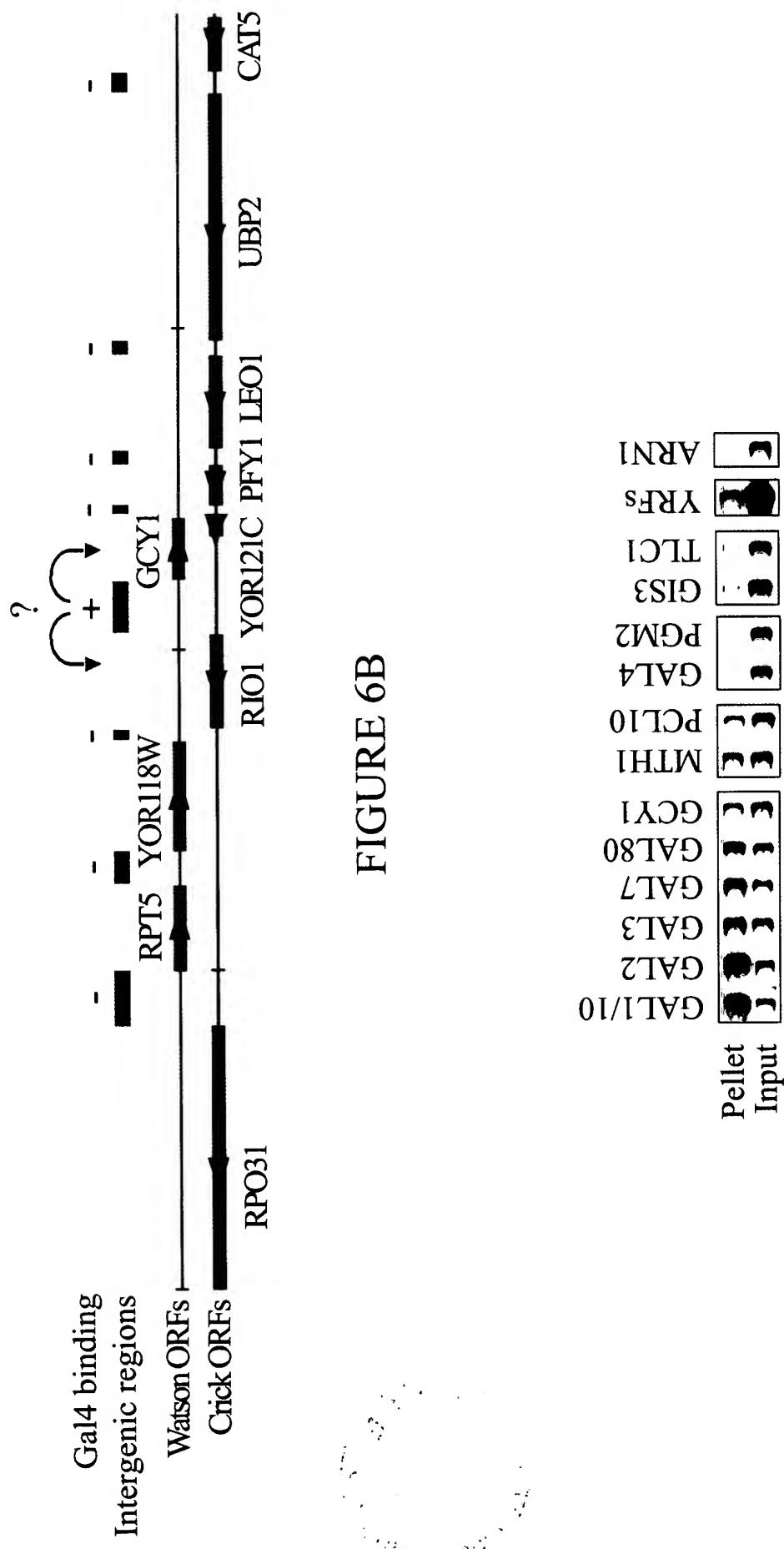


FIGURE 6B

FIGURE 6C

App No.: 10/032,281 10032281 . 060602  
Title: Genome-Wide Location and Function  
Inventors: John Wyrick, *et al.*

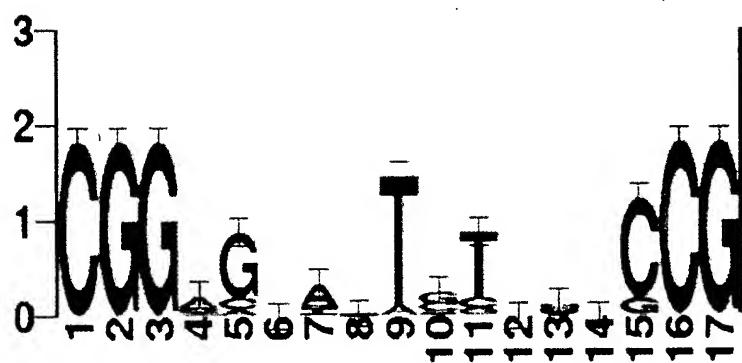


FIGURE 6D

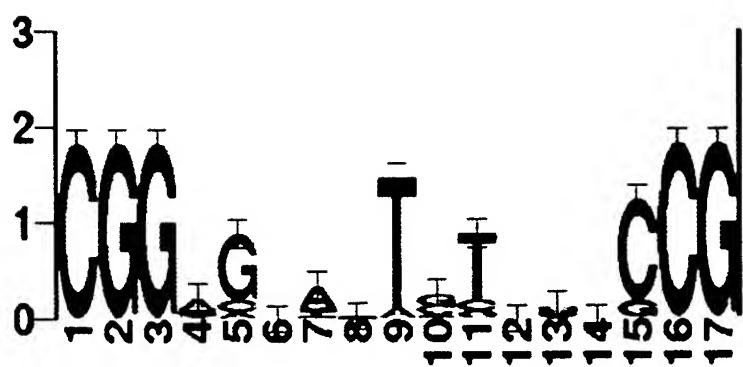


FIGURE 6D

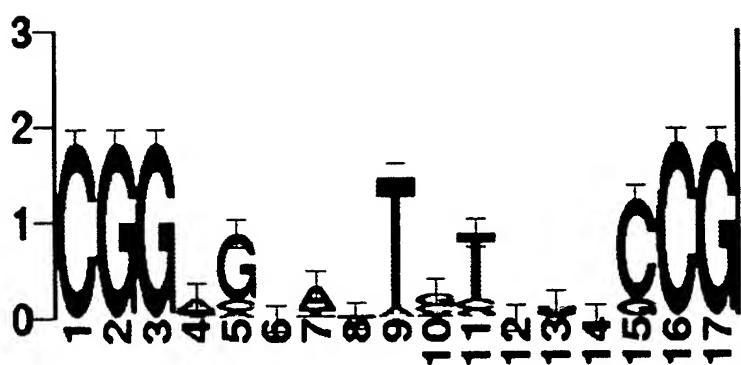


FIGURE 6D

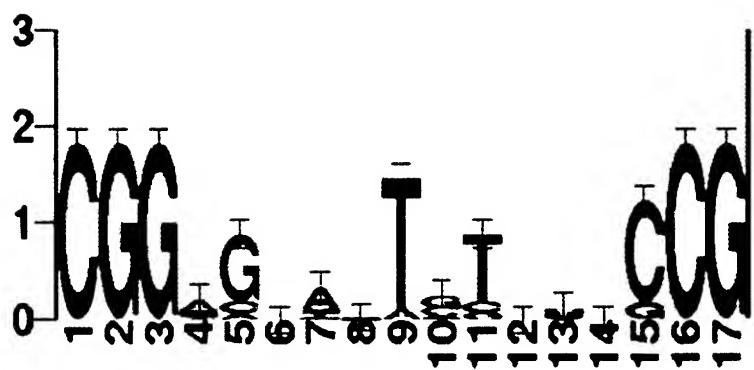


FIGURE 6D

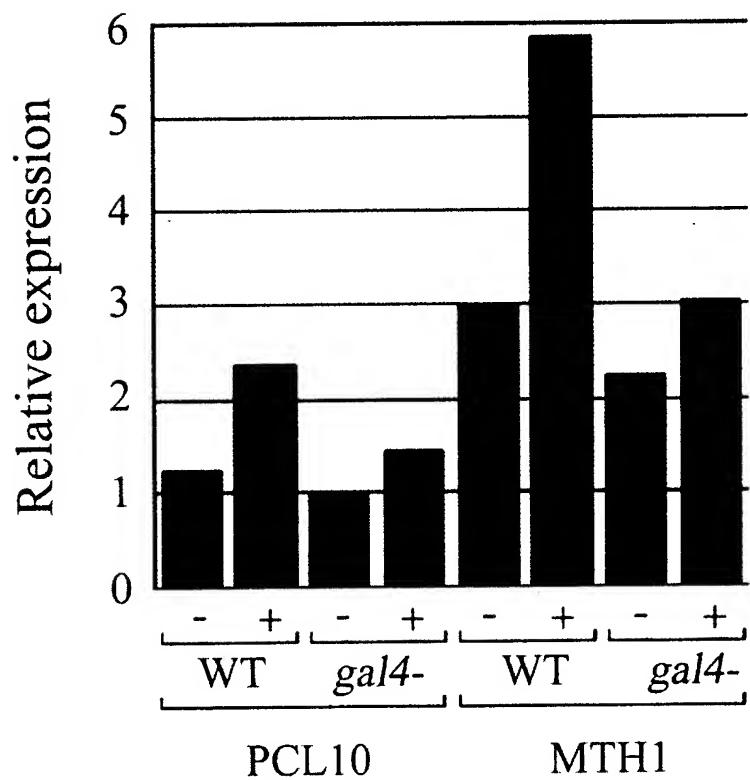


FIGURE 6E

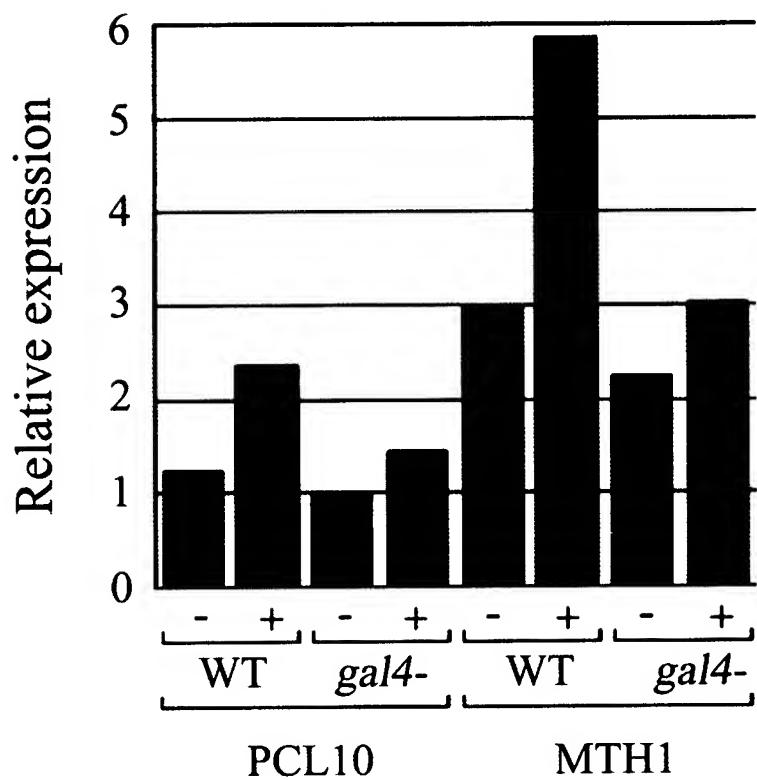


FIGURE 6E

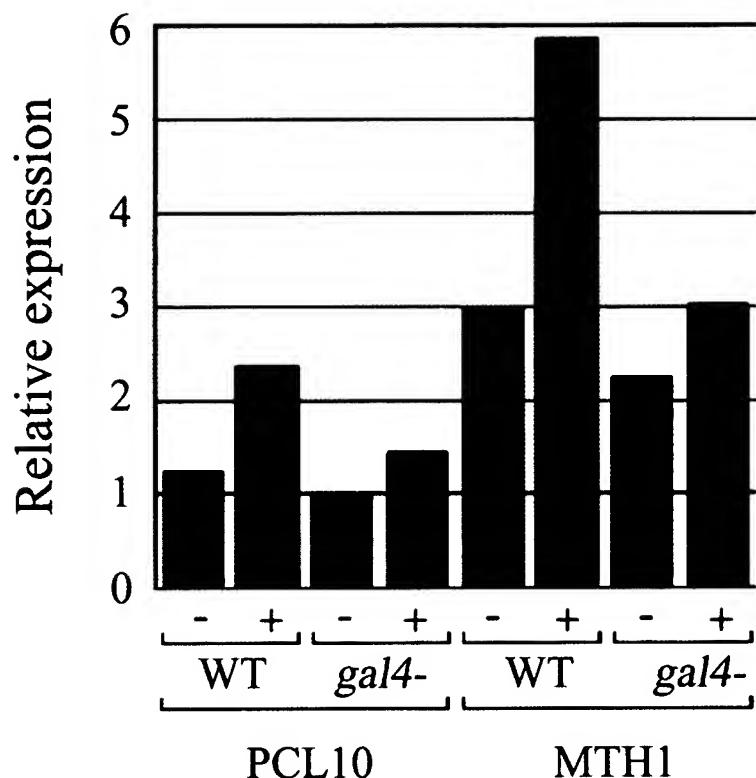


FIGURE 6E

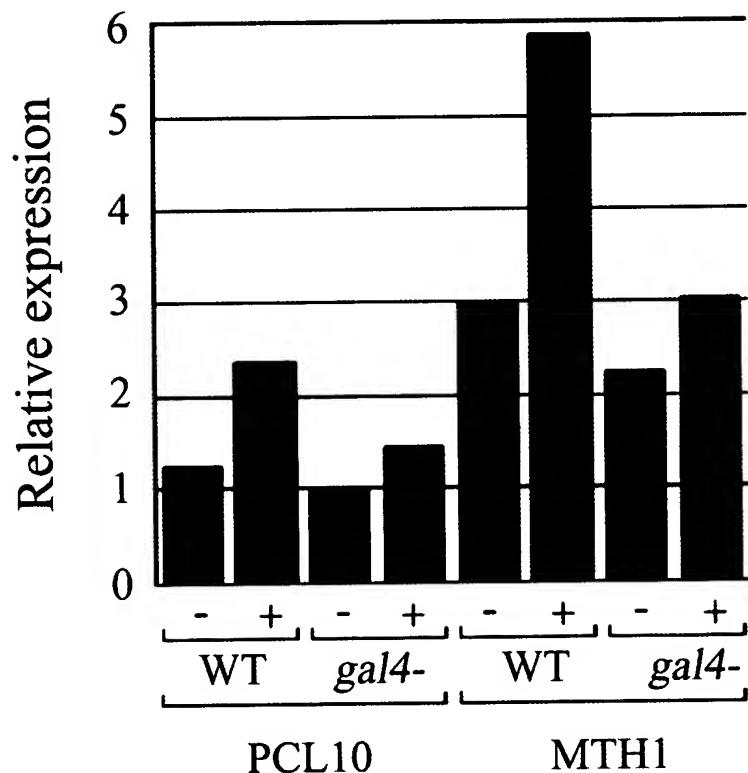


FIGURE 6E

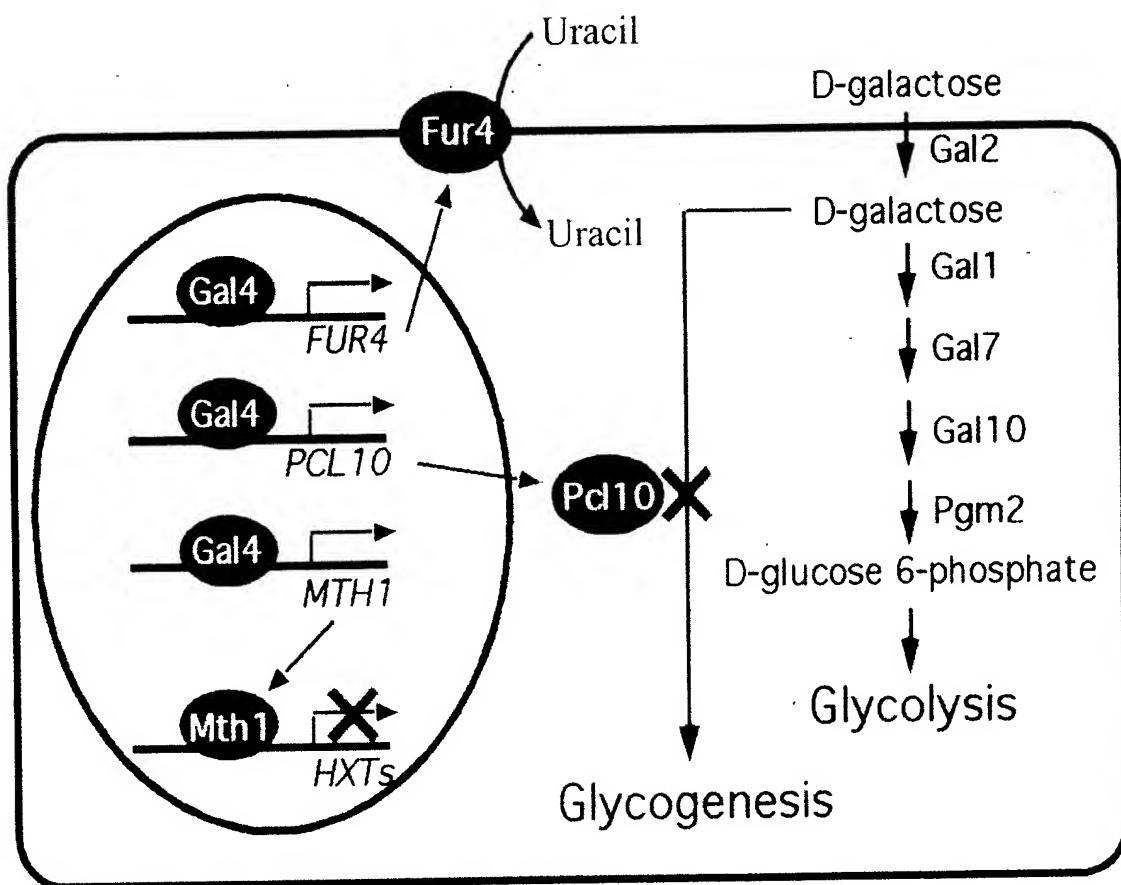


FIGURE 6F

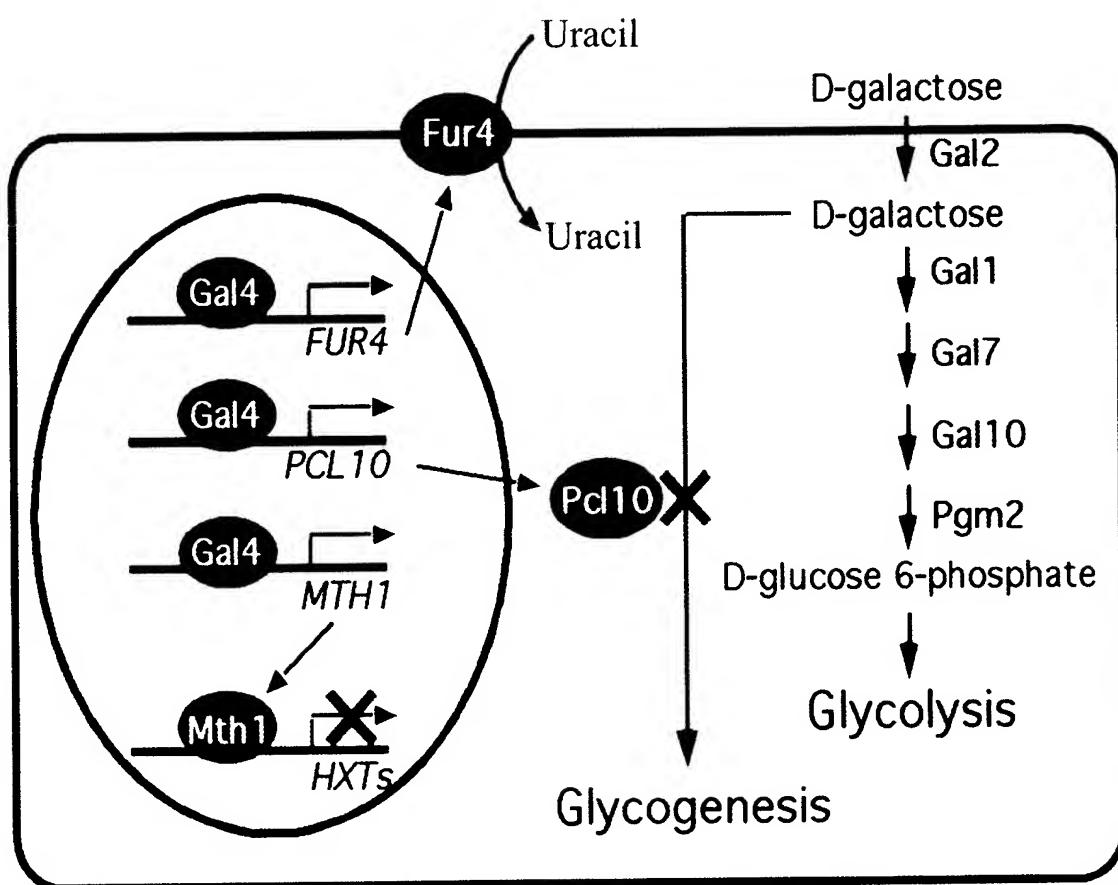


FIGURE 6F

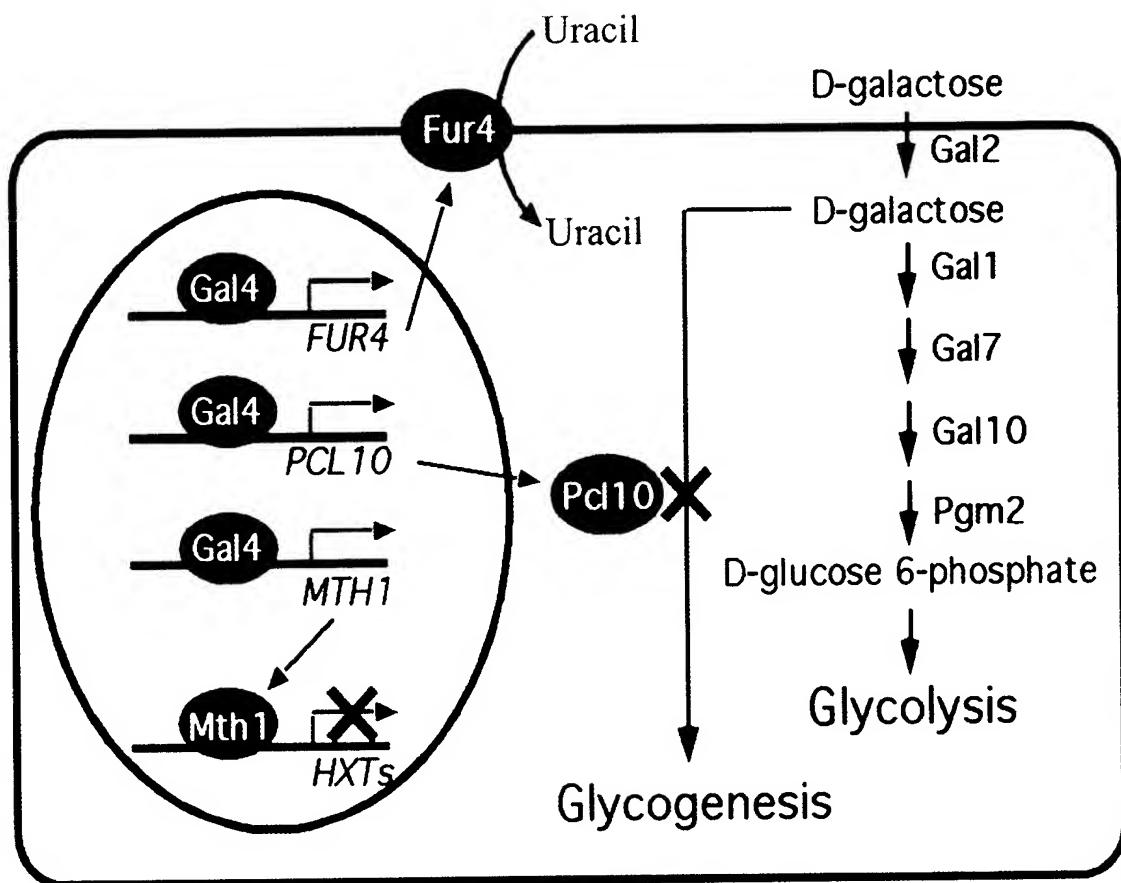


FIGURE 6F

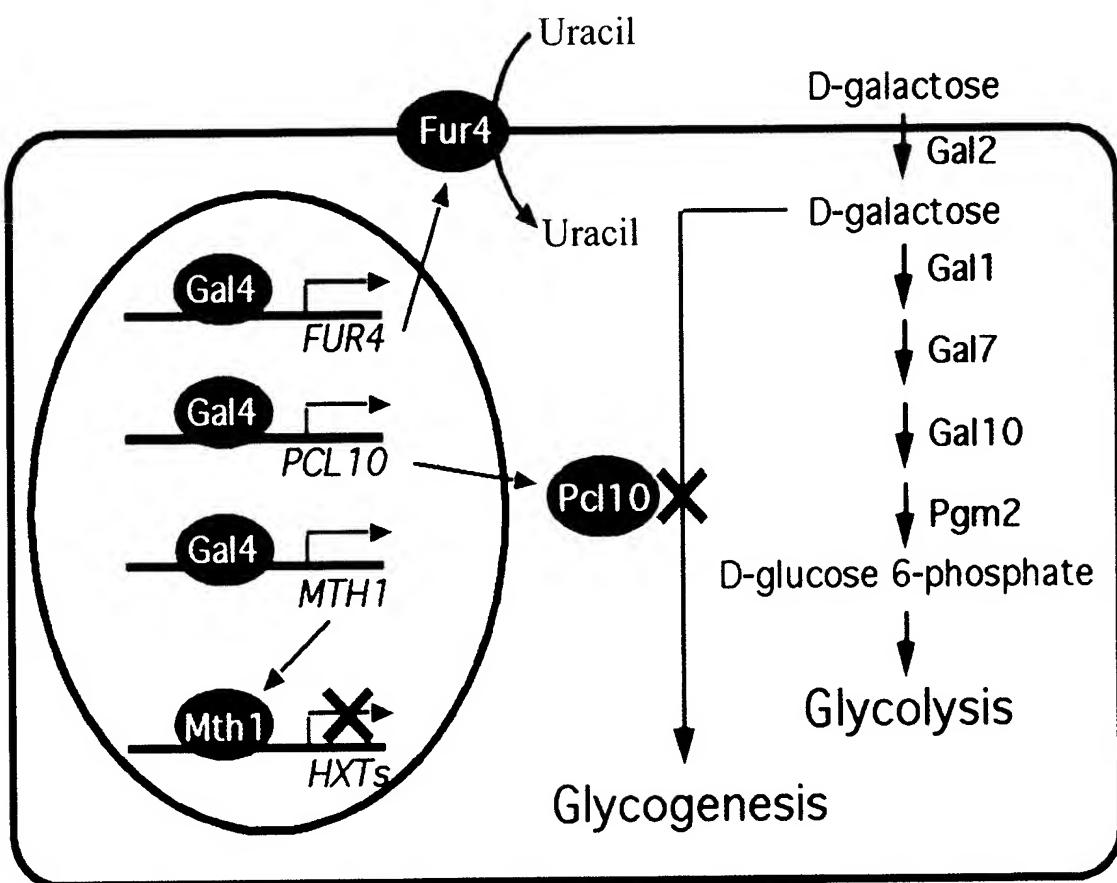


FIGURE 6F

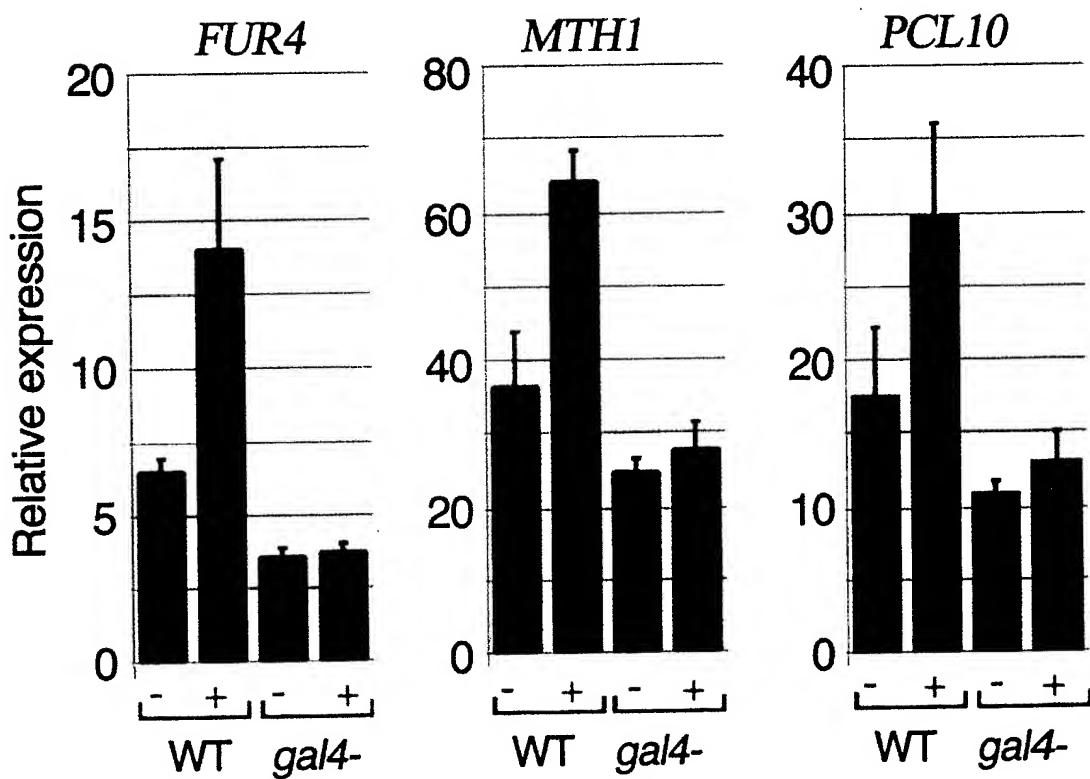


FIGURE 6G

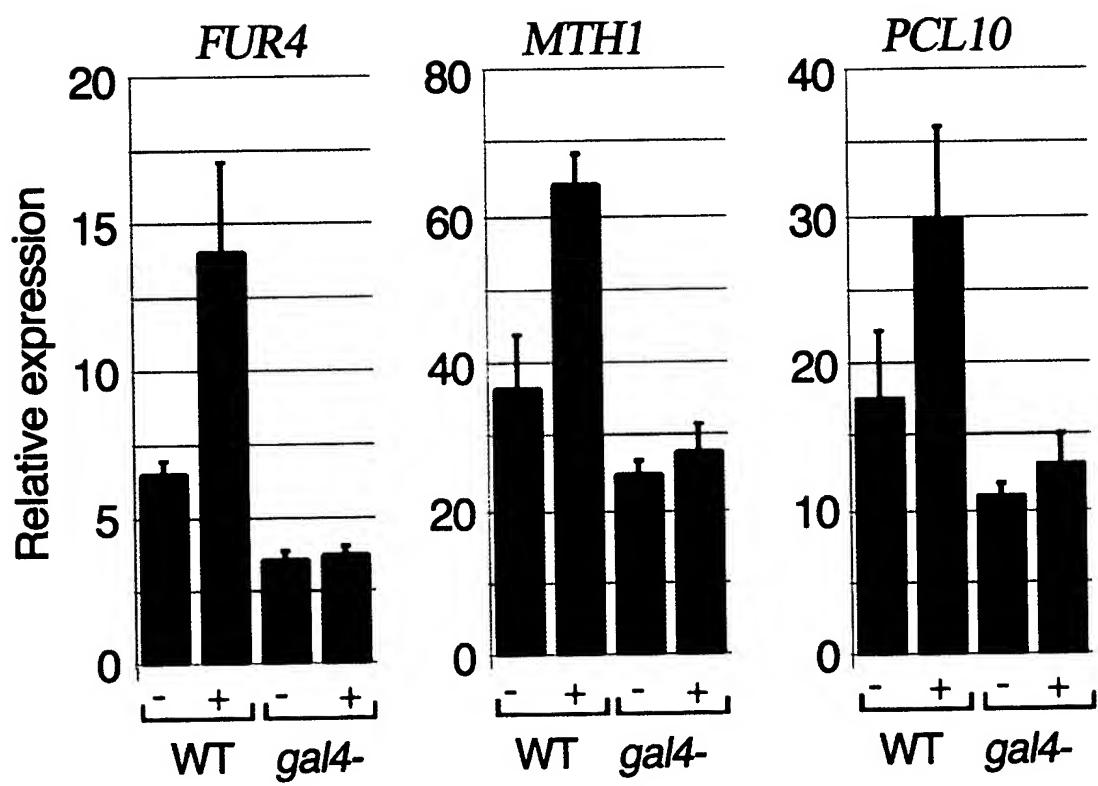


FIGURE 6G

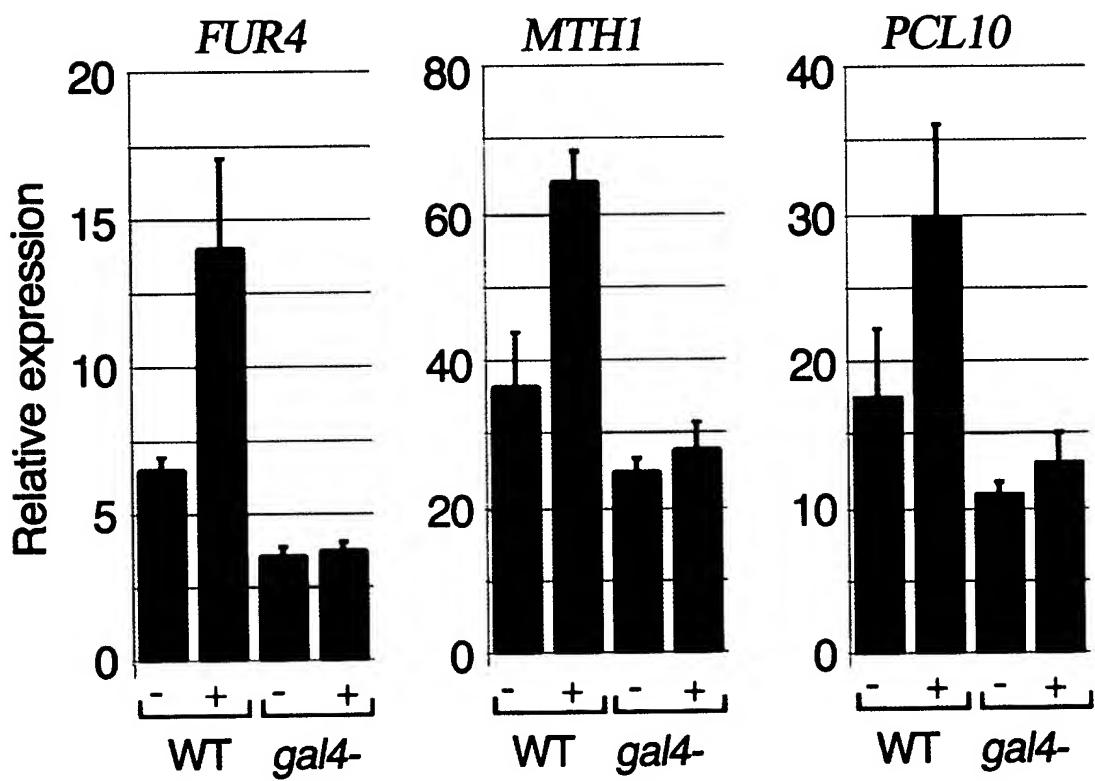


FIGURE 6G

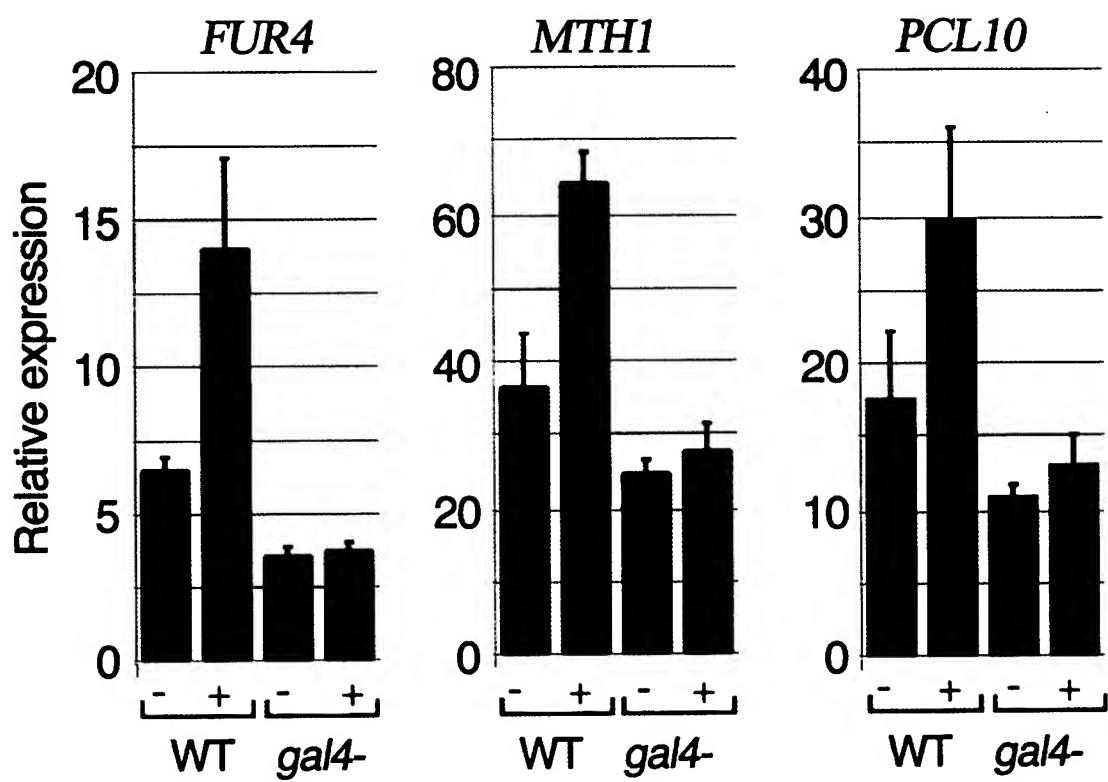


FIGURE 6G

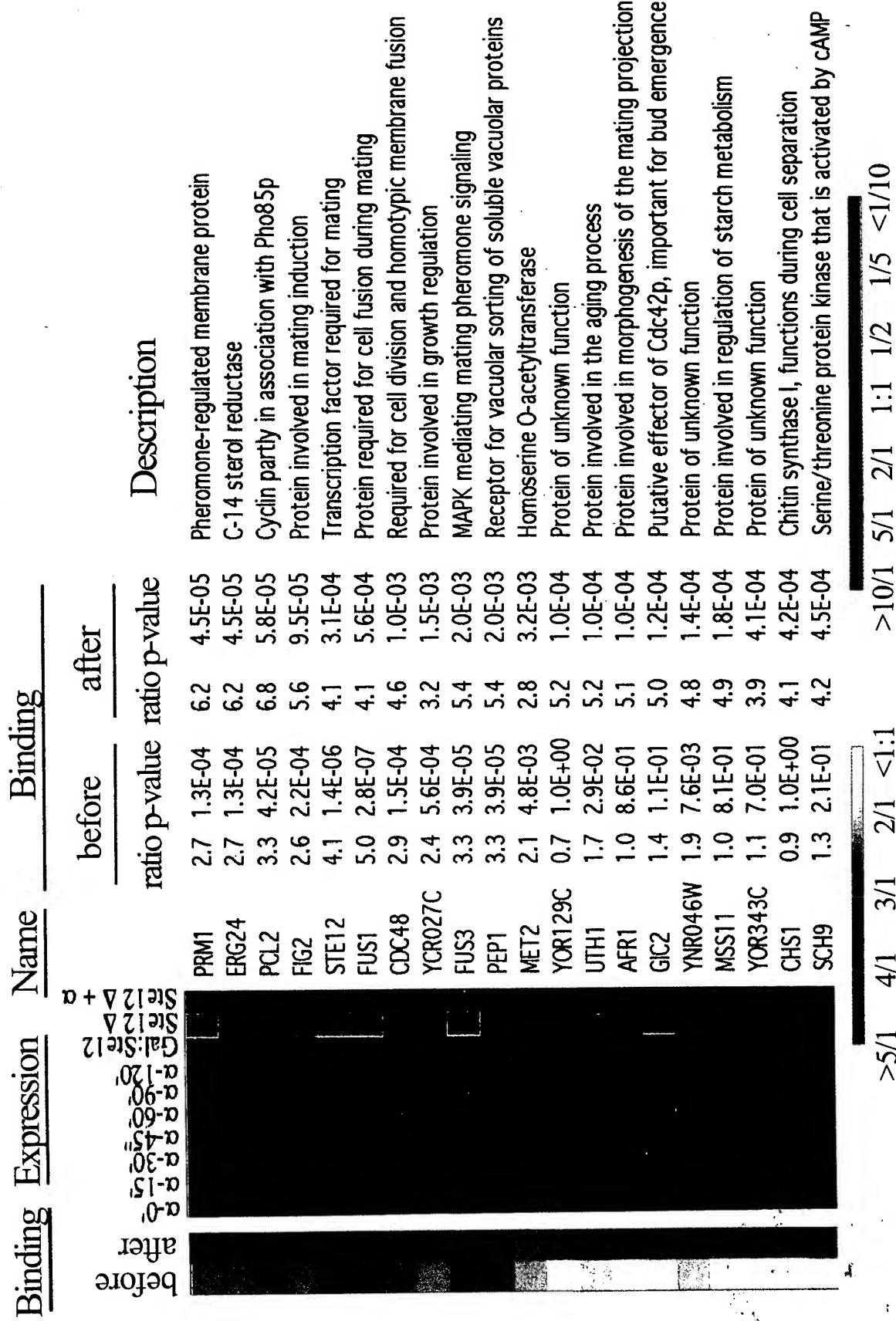


FIGURE 7A

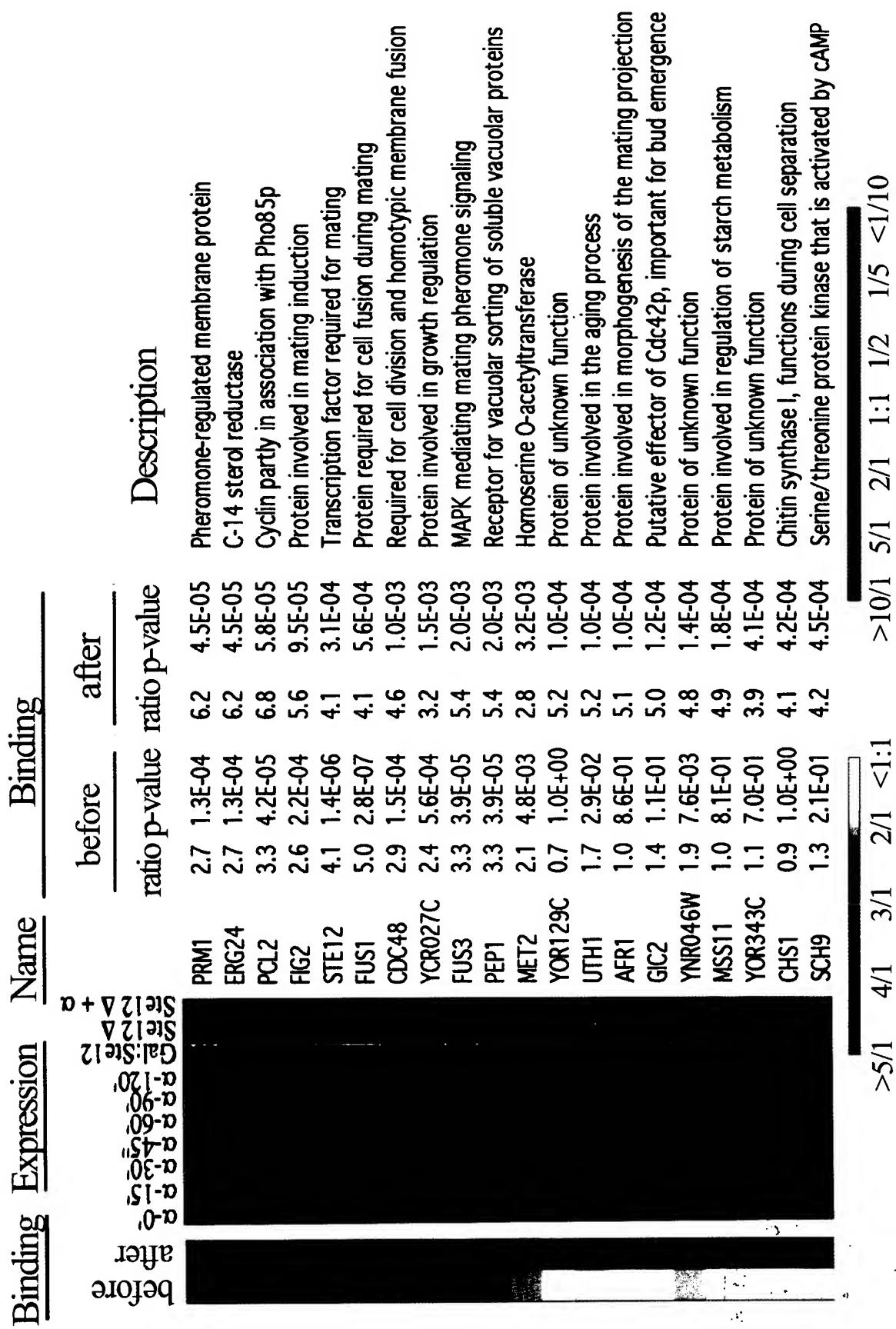


FIGURE 7A

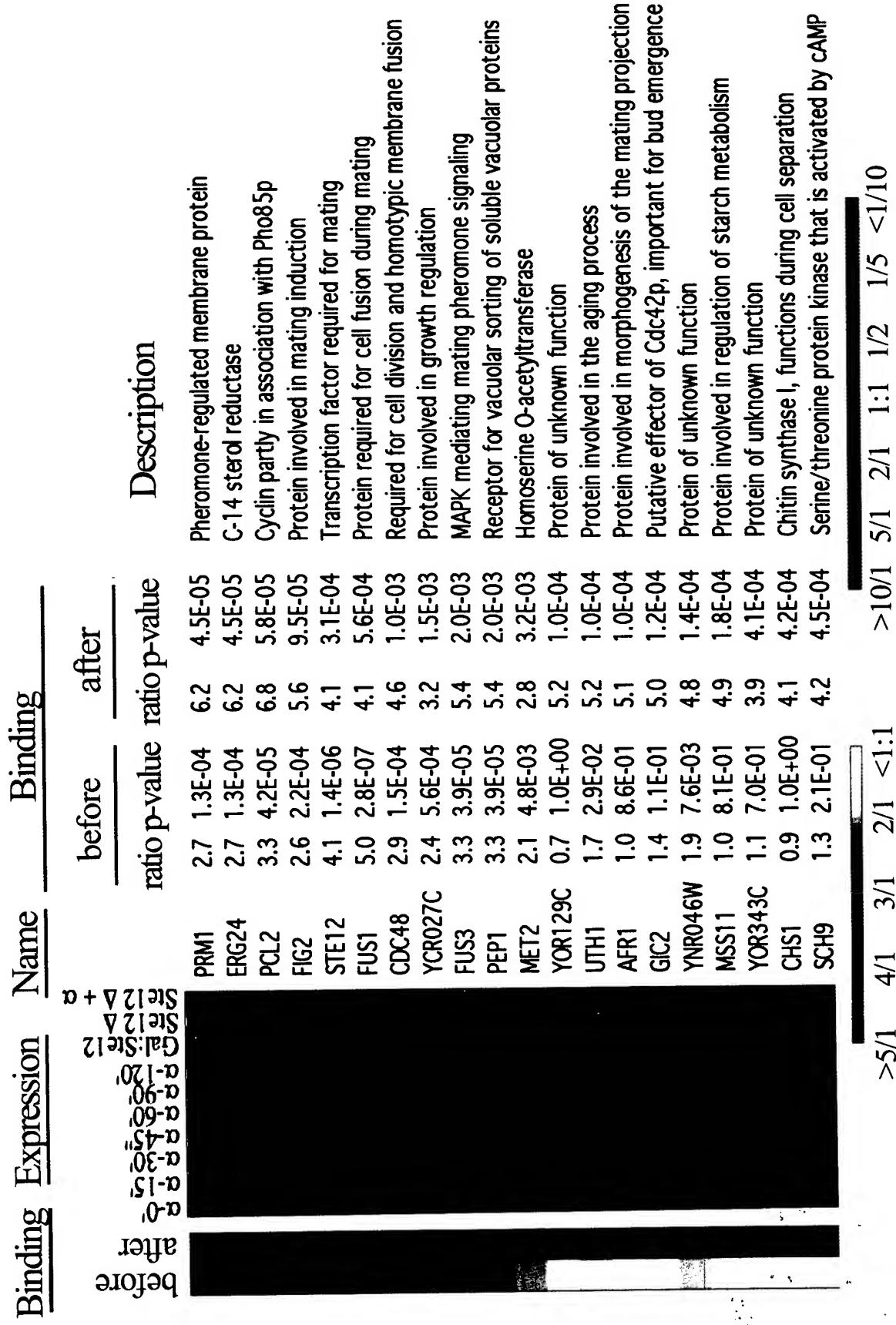


FIGURE 7A

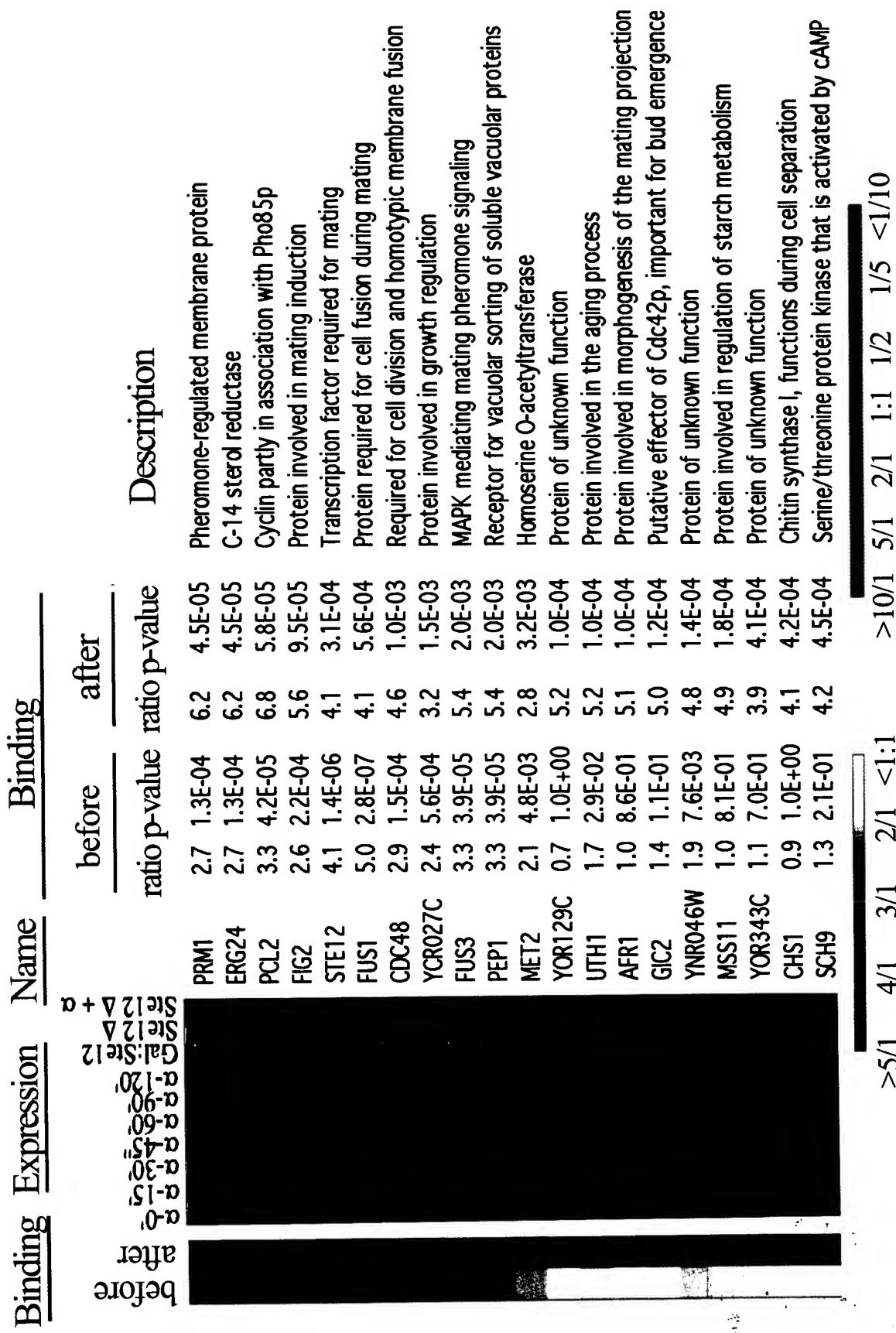


FIGURE 7A

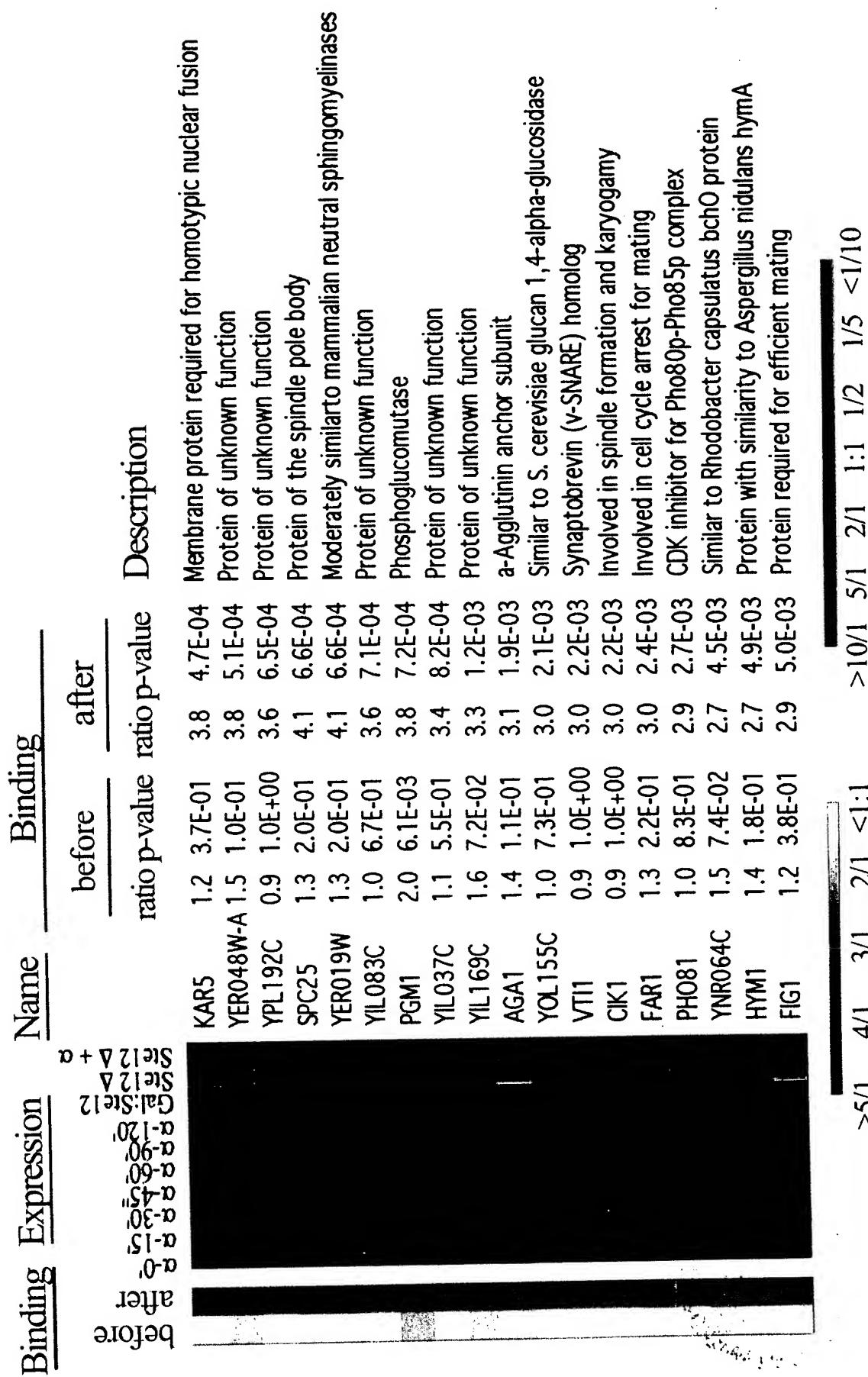


FIGURE 7B

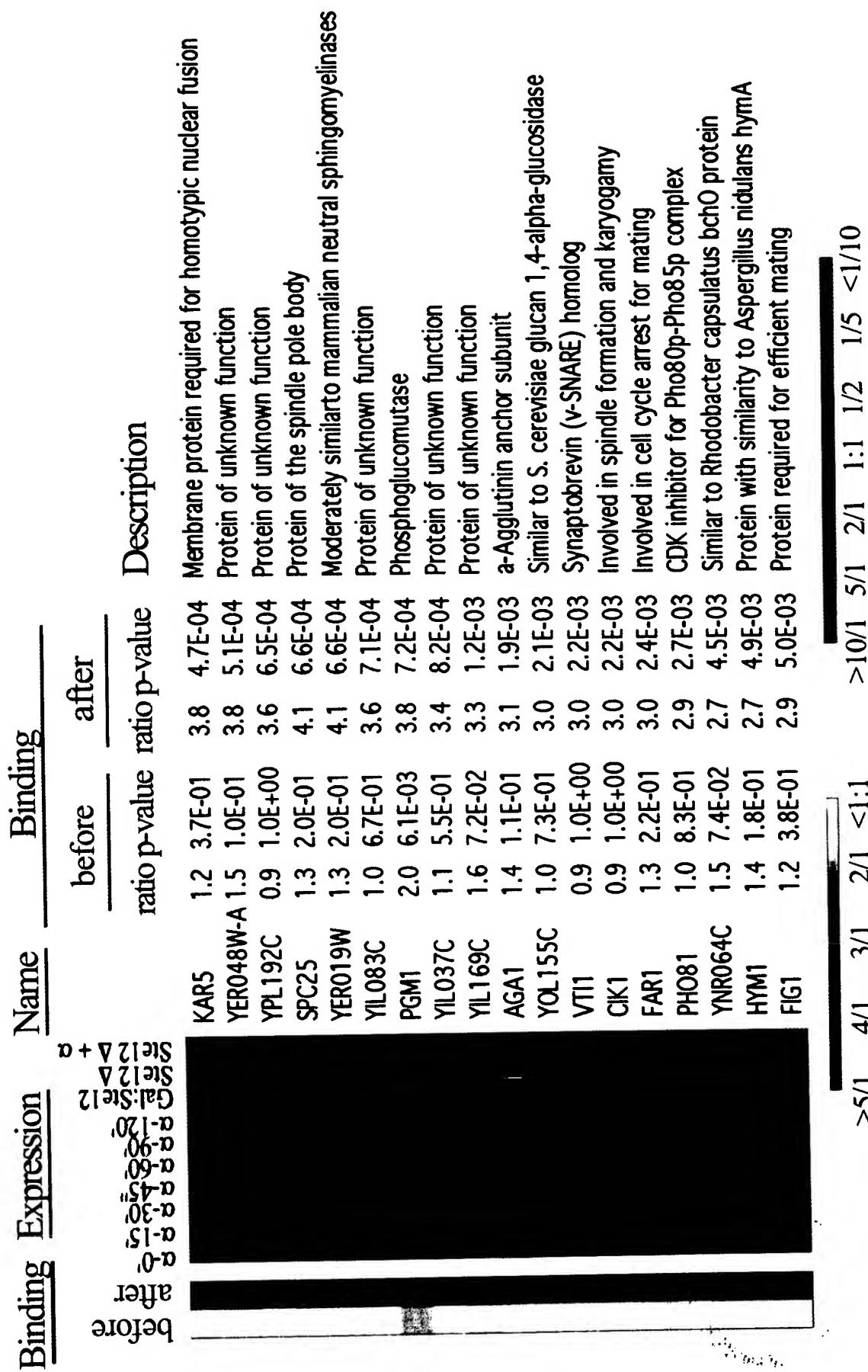


FIGURE 7B

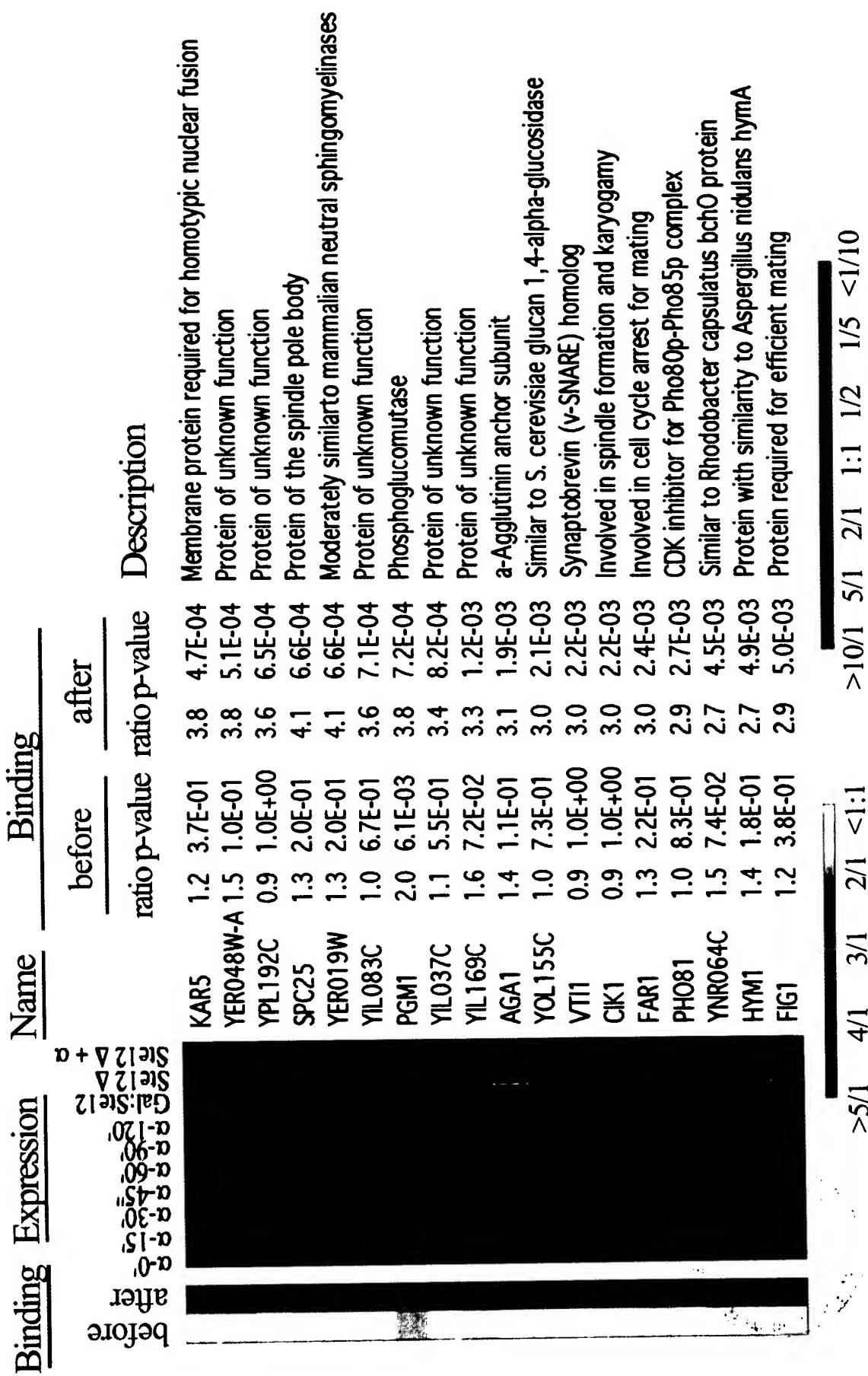


FIGURE 7B

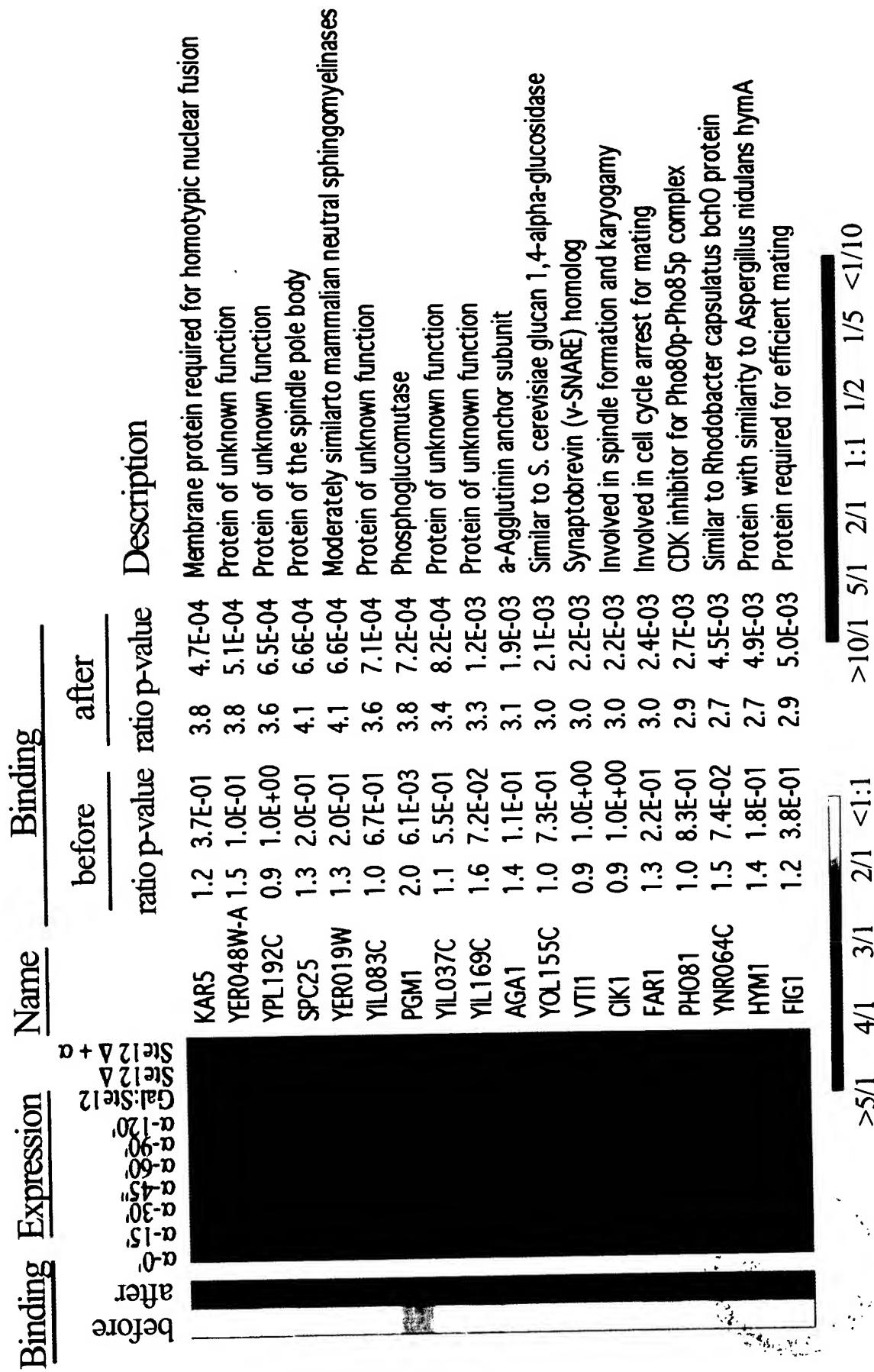


FIGURE 7B

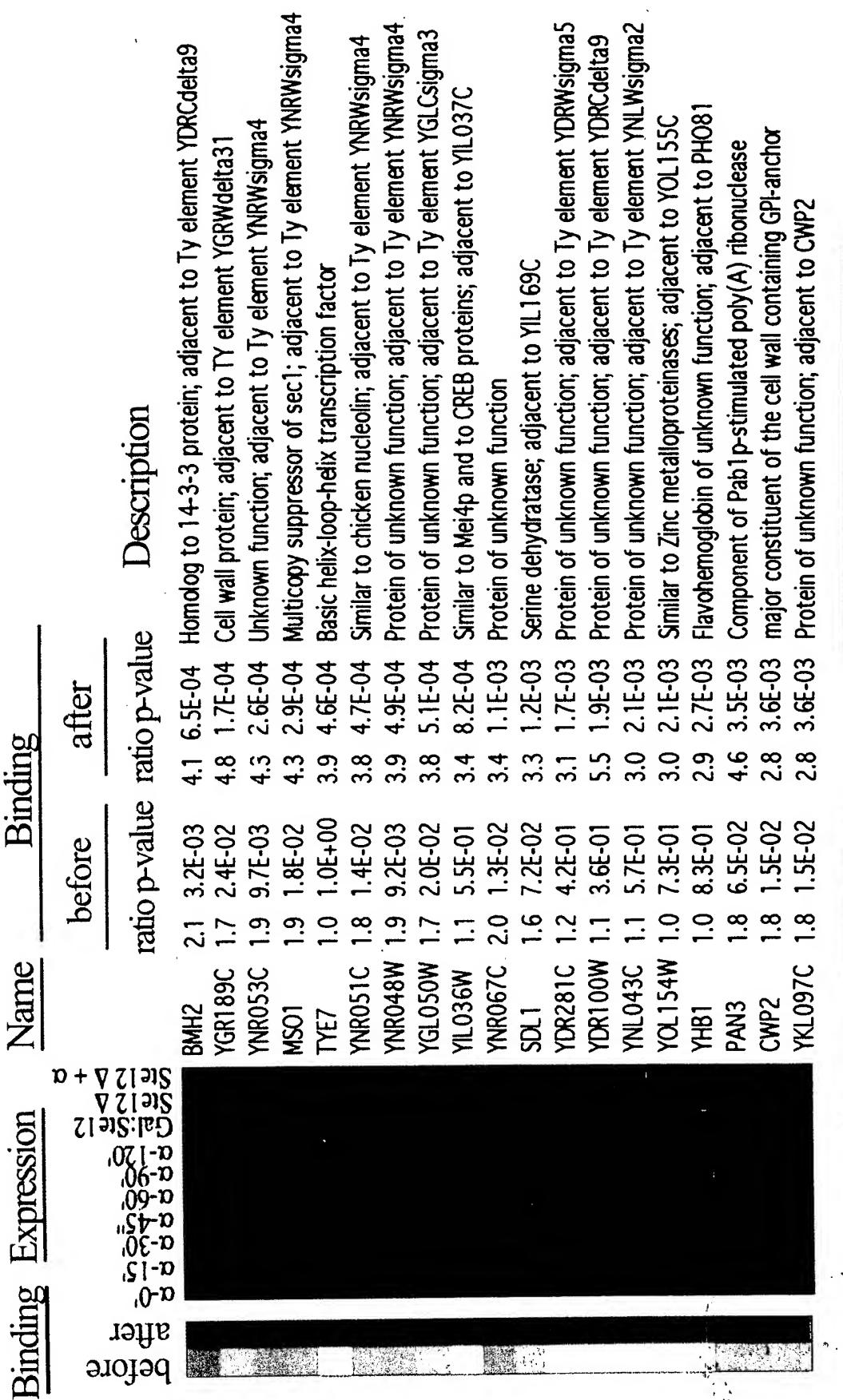


FIGURE 7C

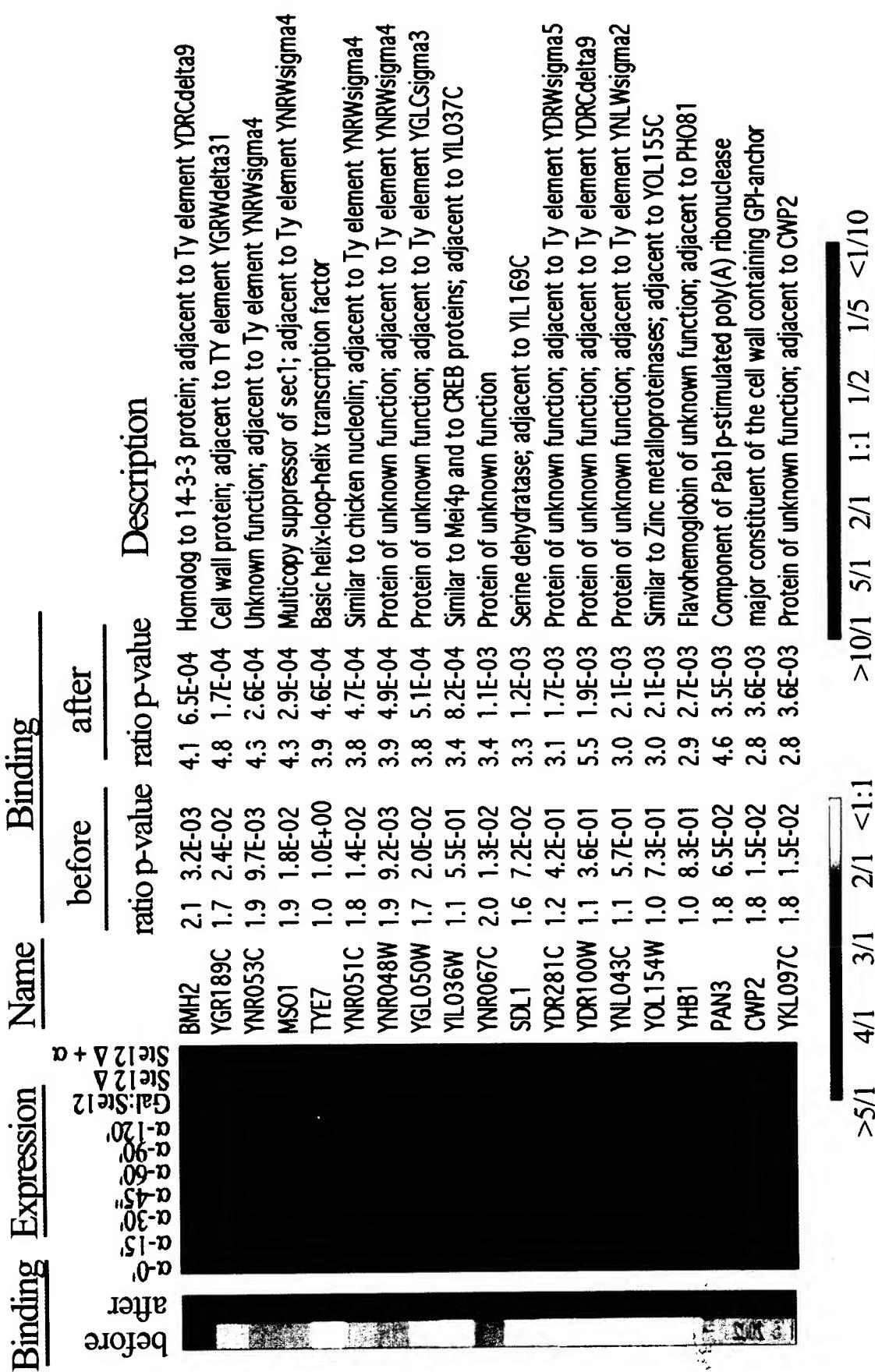


FIGURE 7C

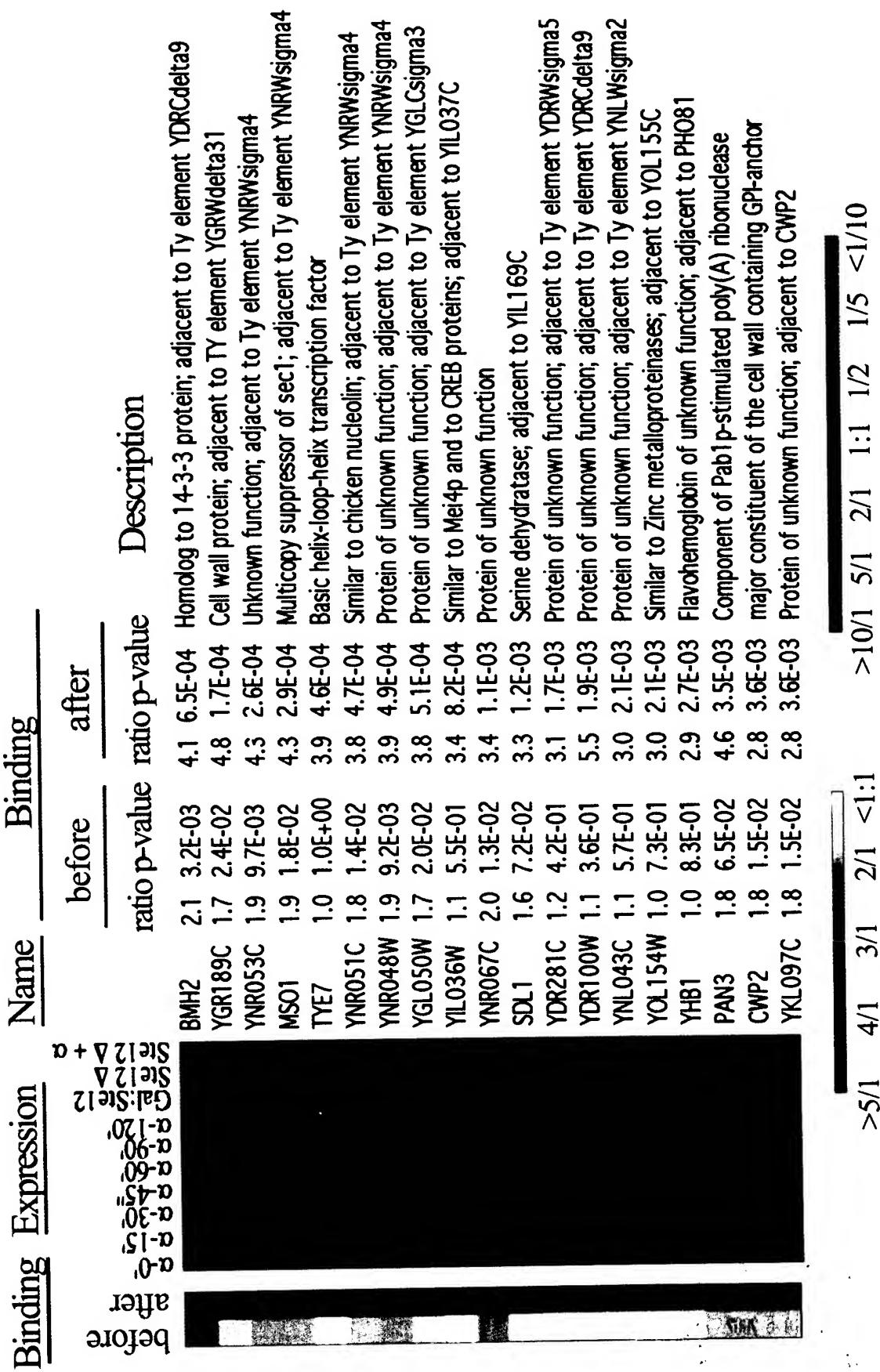
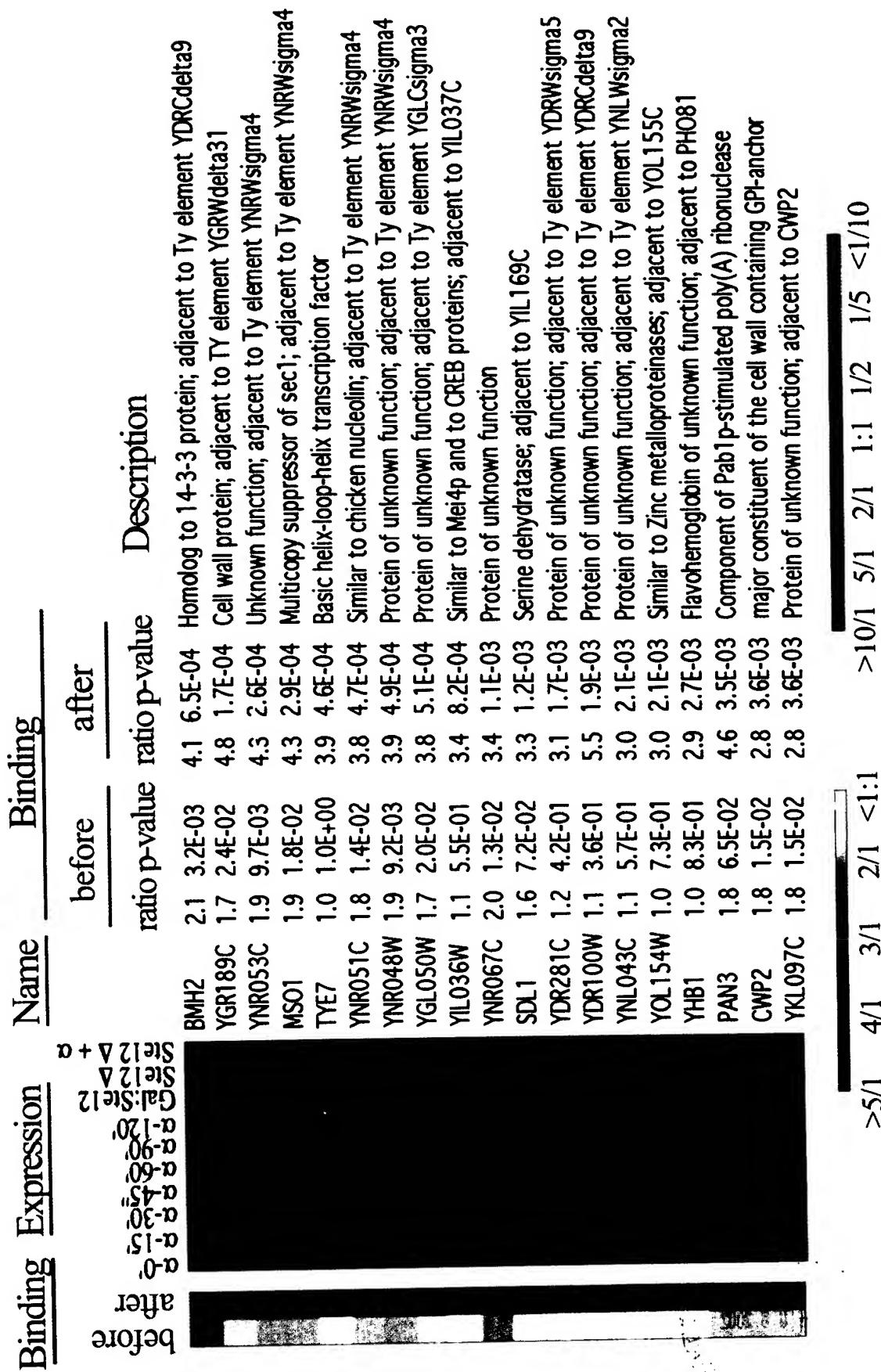


FIGURE 7C



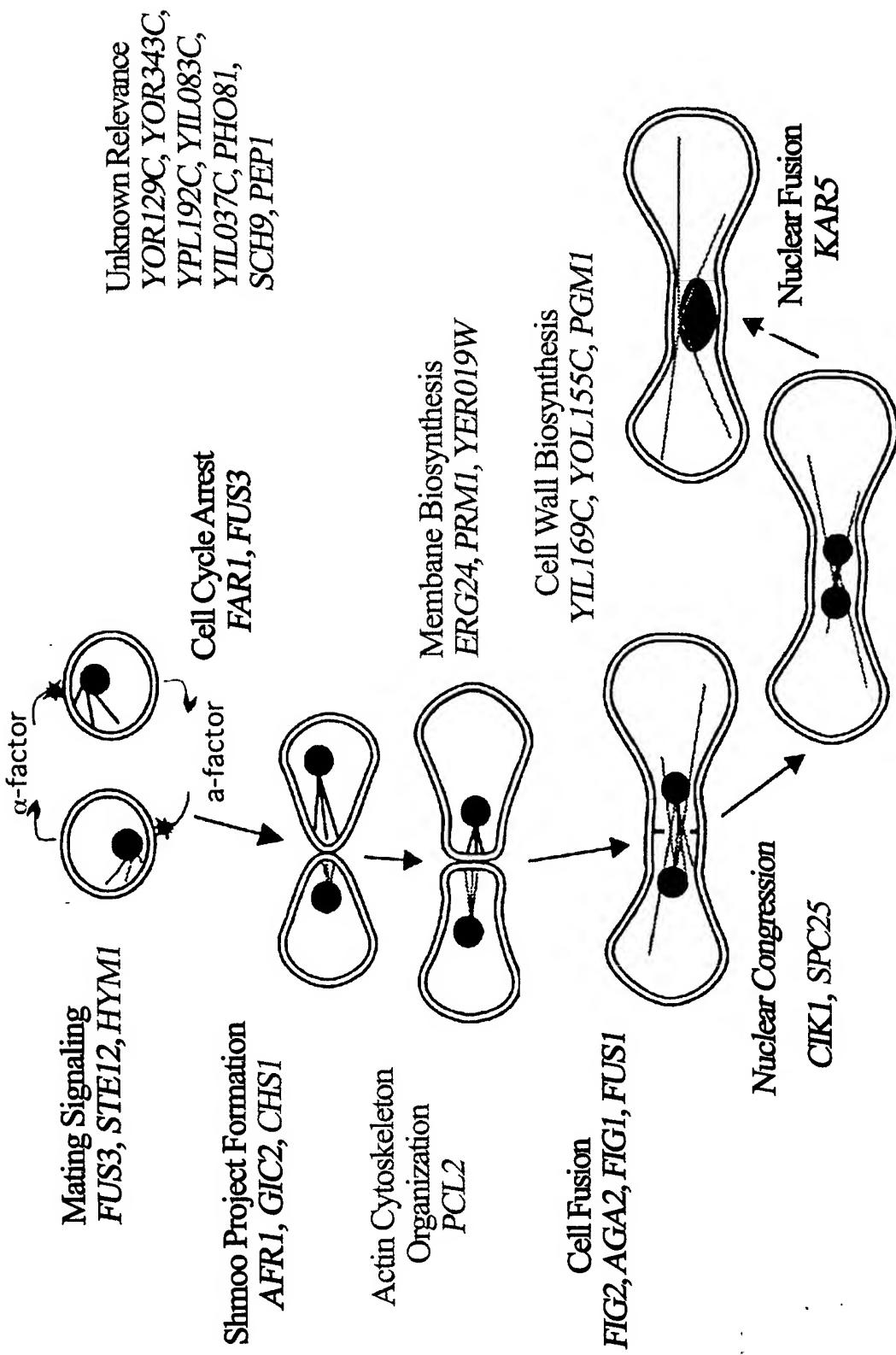


FIGURE 8

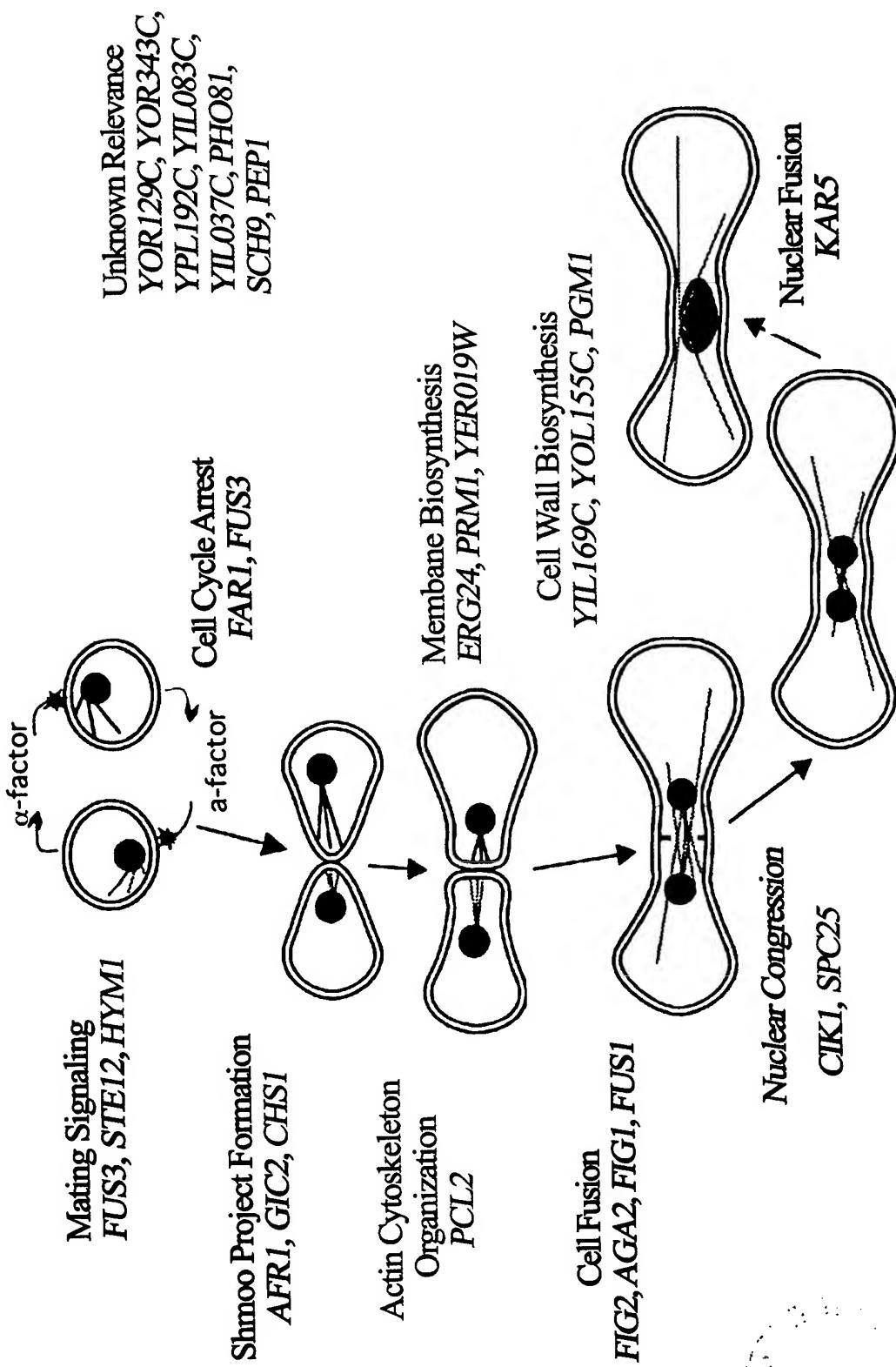


FIGURE 8

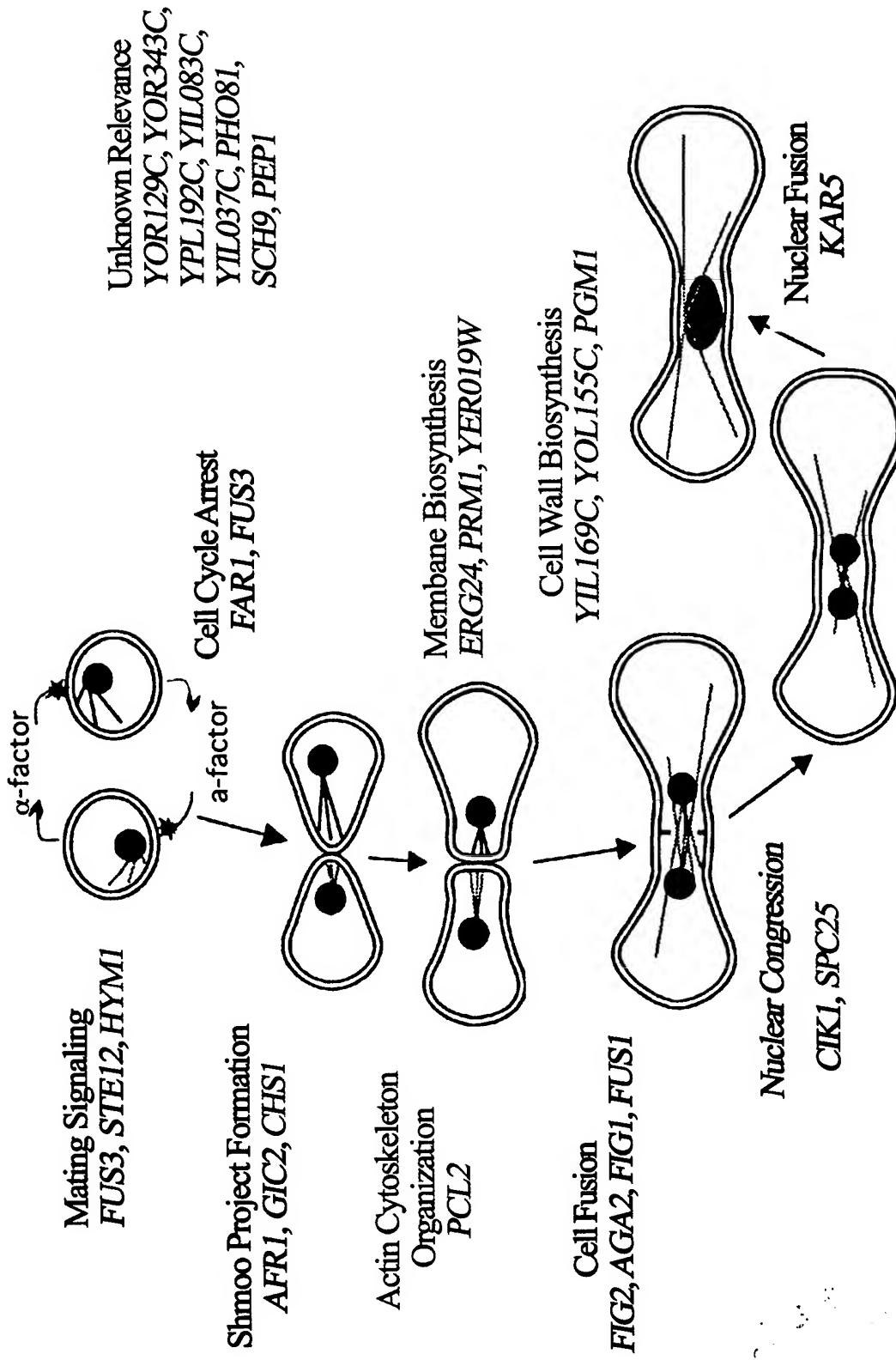


FIGURE 8

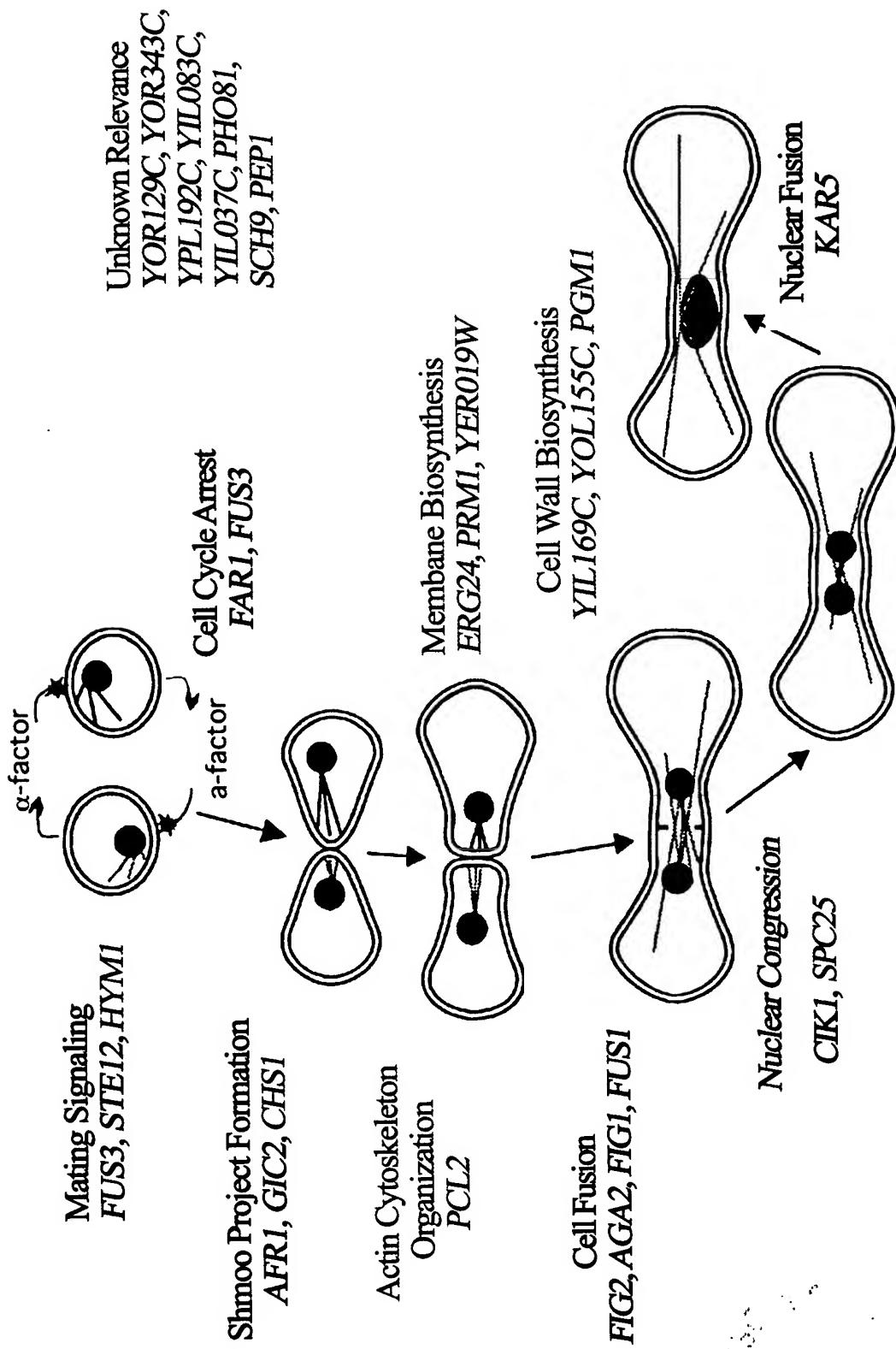


FIGURE 8

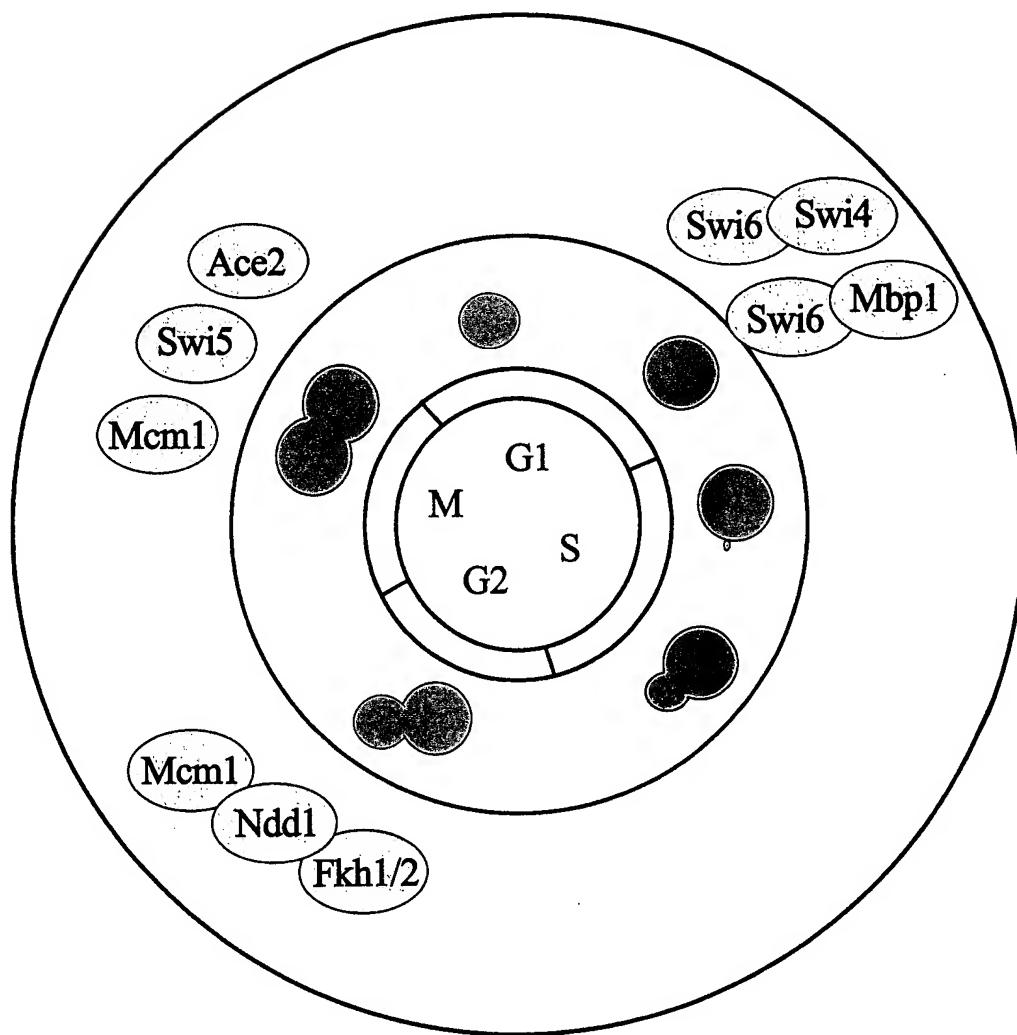


FIGURE 9A

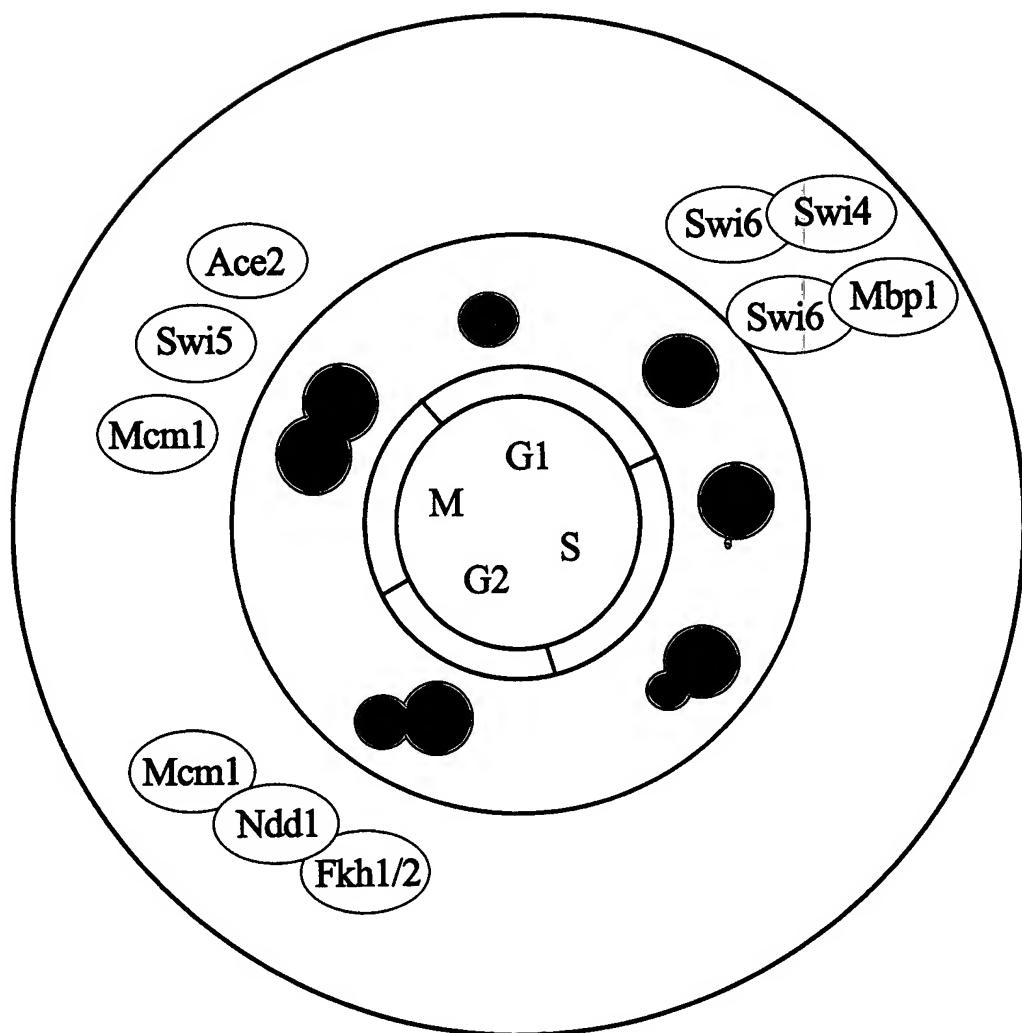


FIGURE 9A

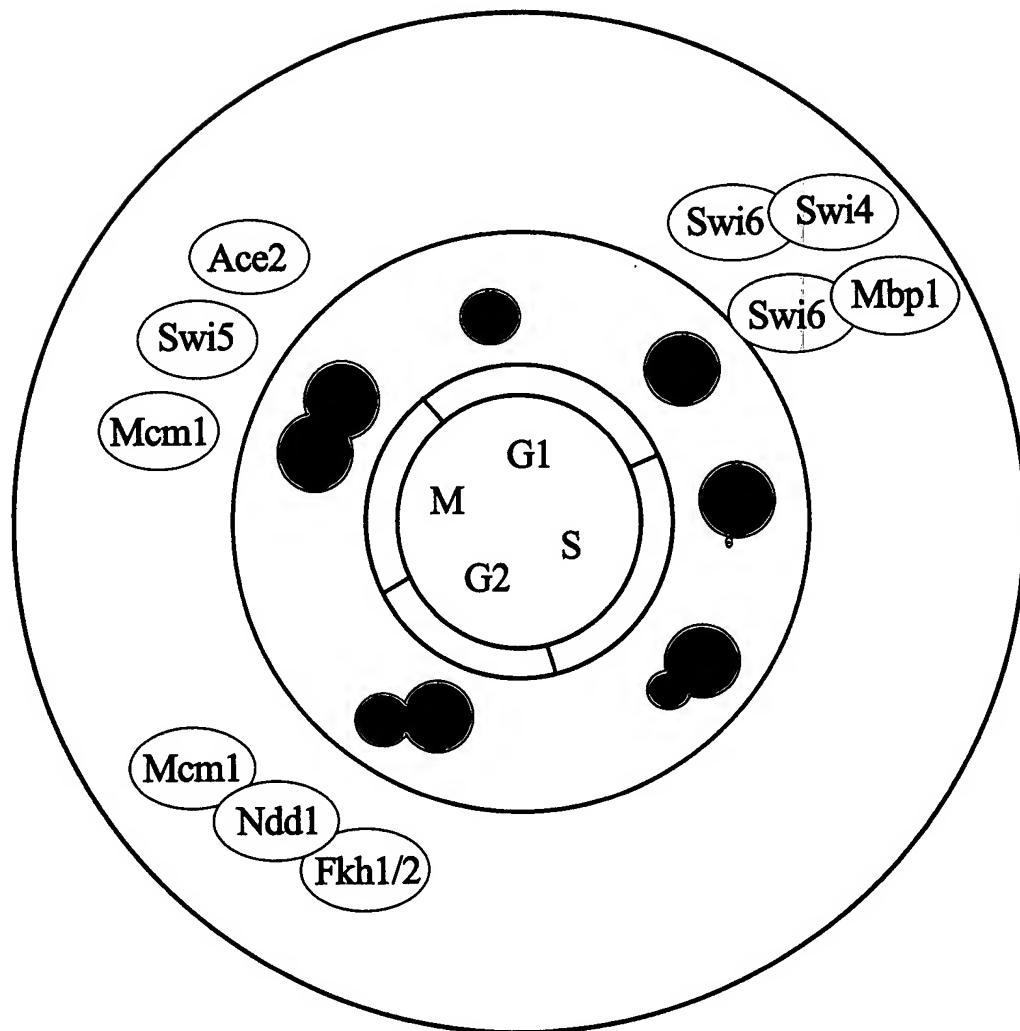


FIGURE 9A

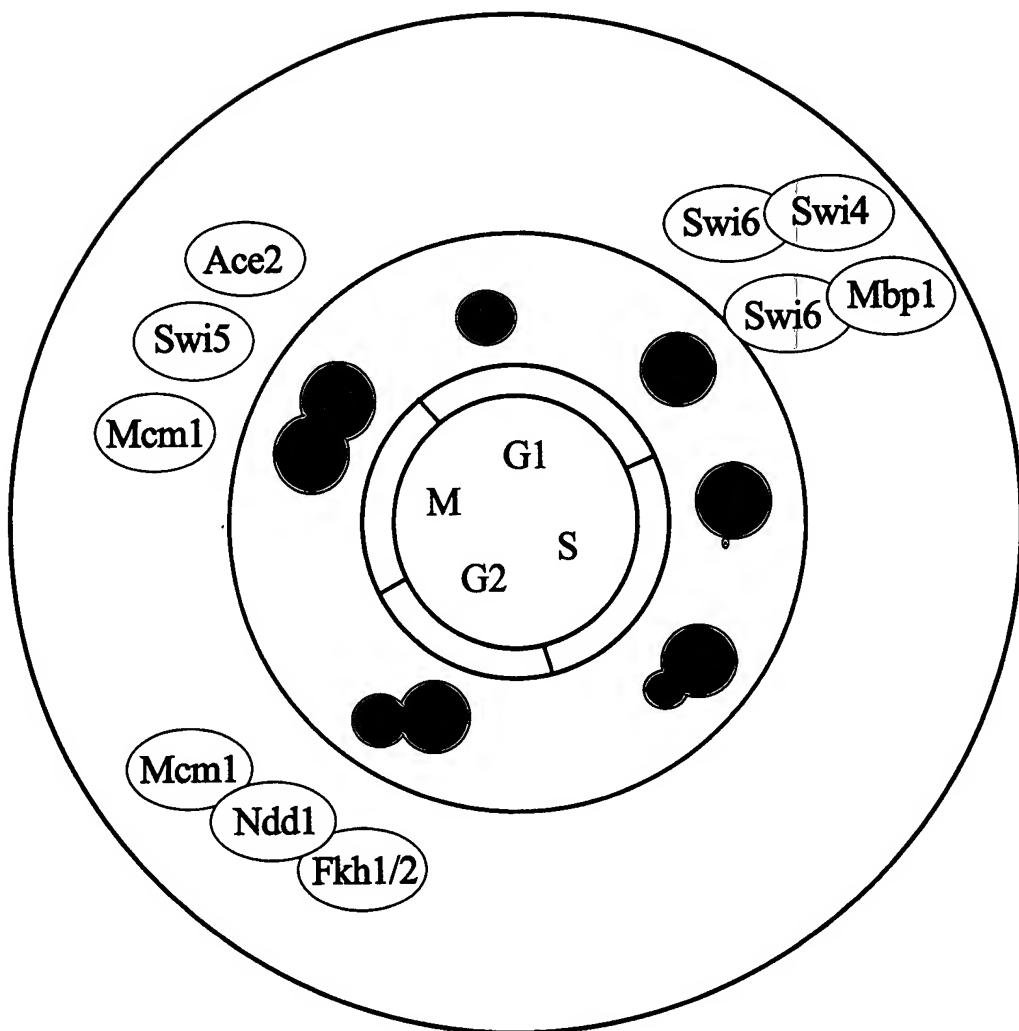


FIGURE 9A

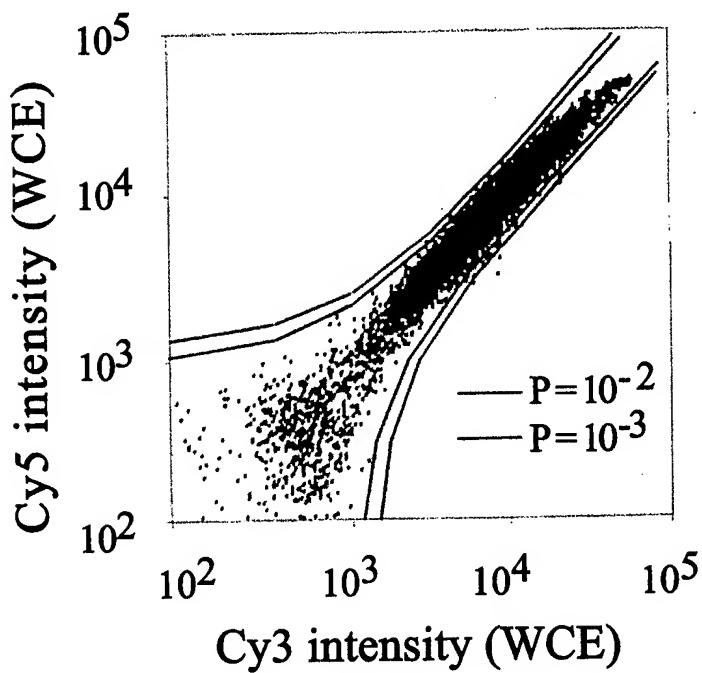


FIGURE 9B

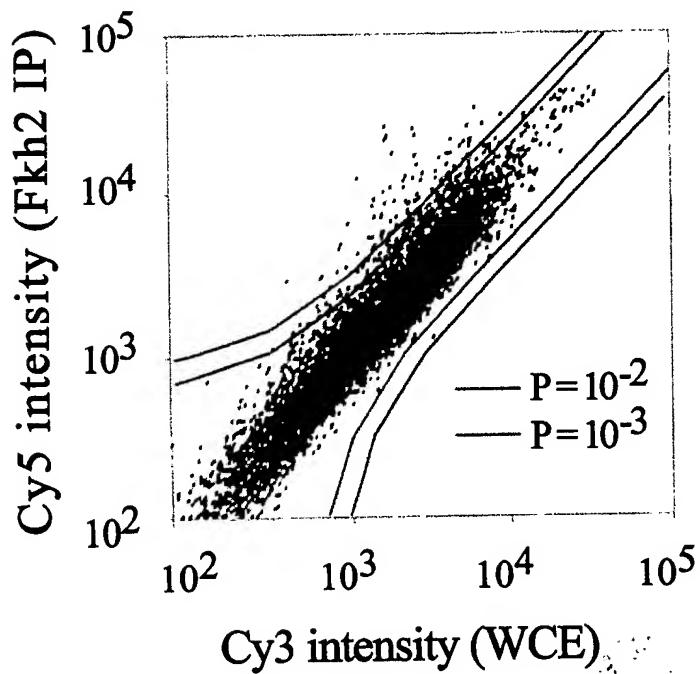


FIGURE 9C

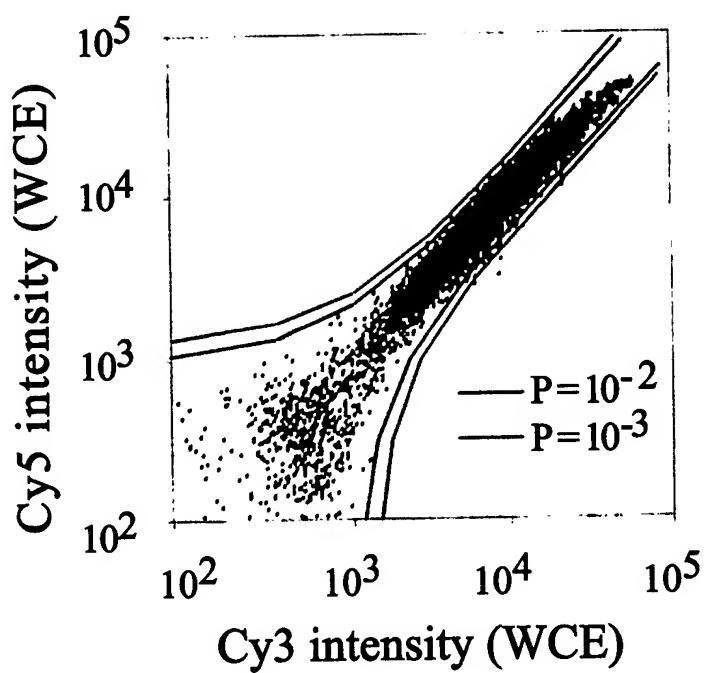


FIGURE 9B

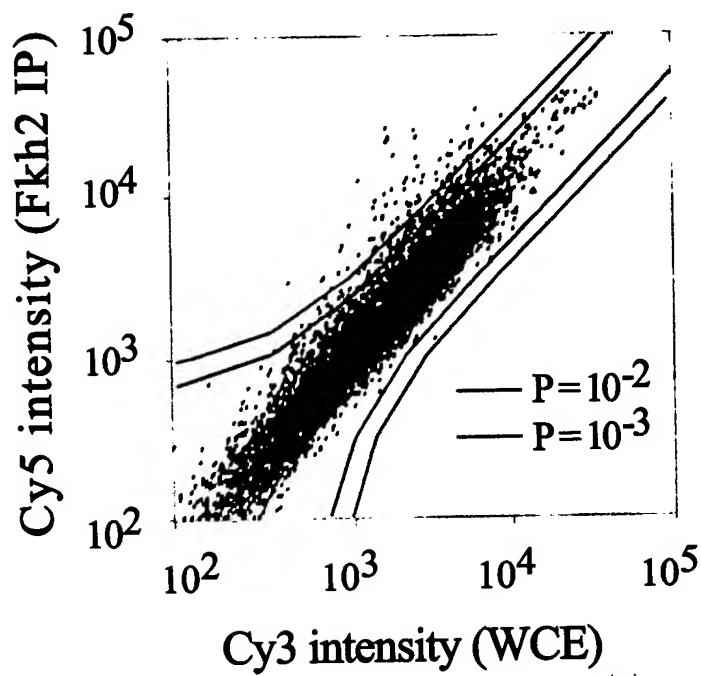


FIGURE 9C

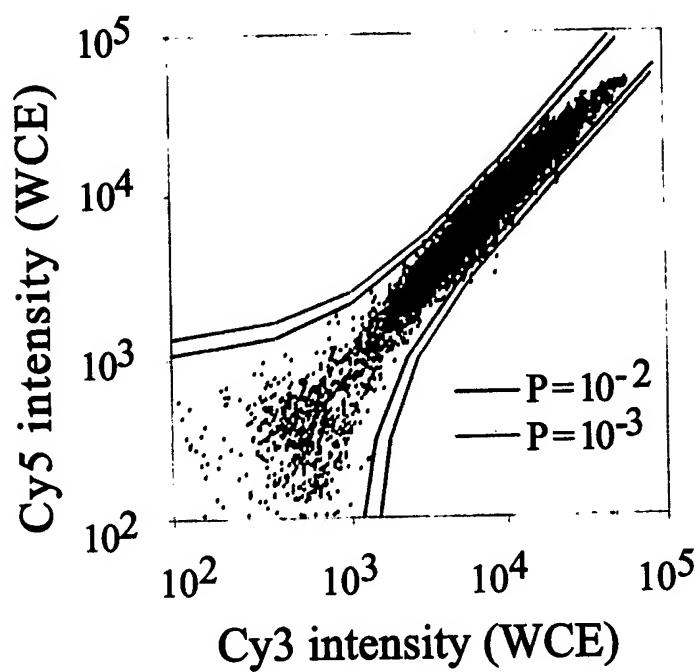


FIGURE 9B

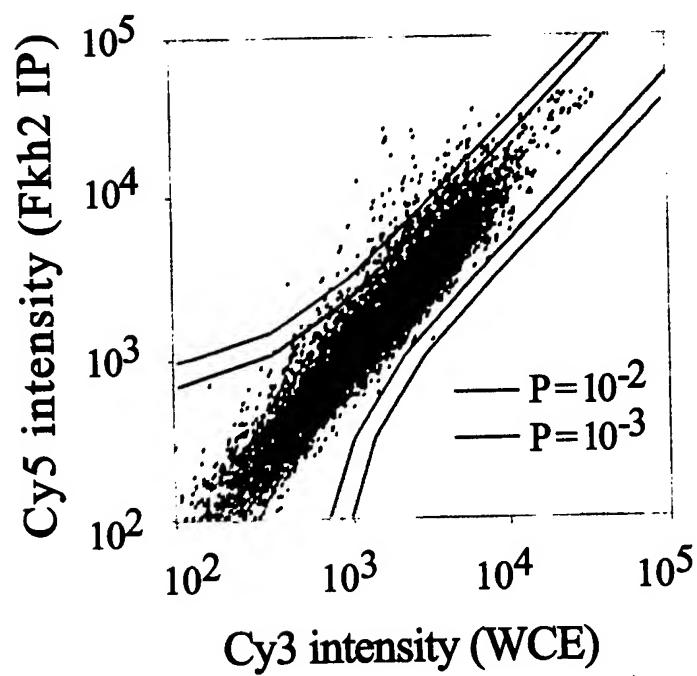


FIGURE 9C

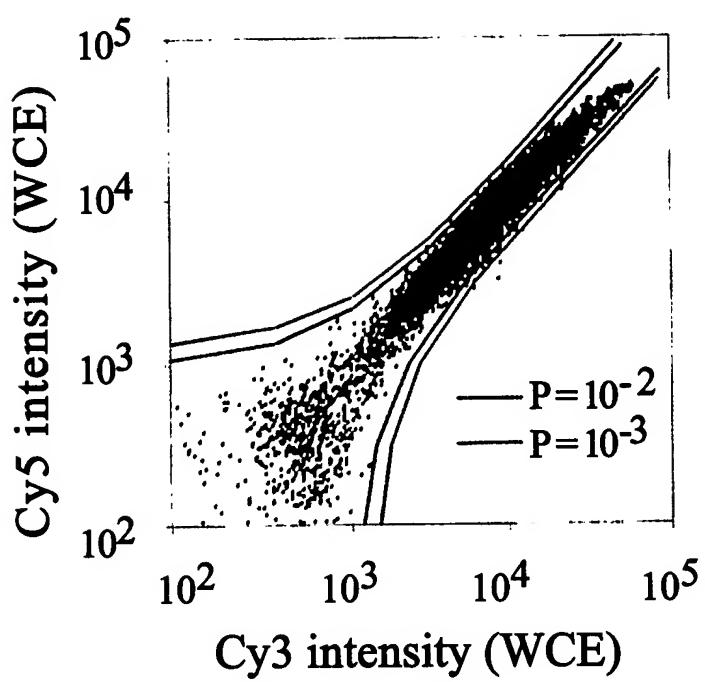


FIGURE 9B

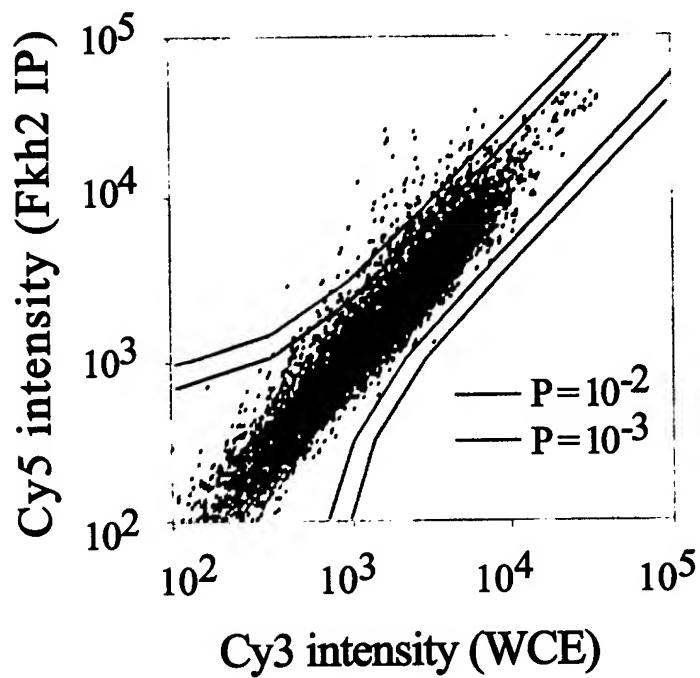


FIGURE 9C

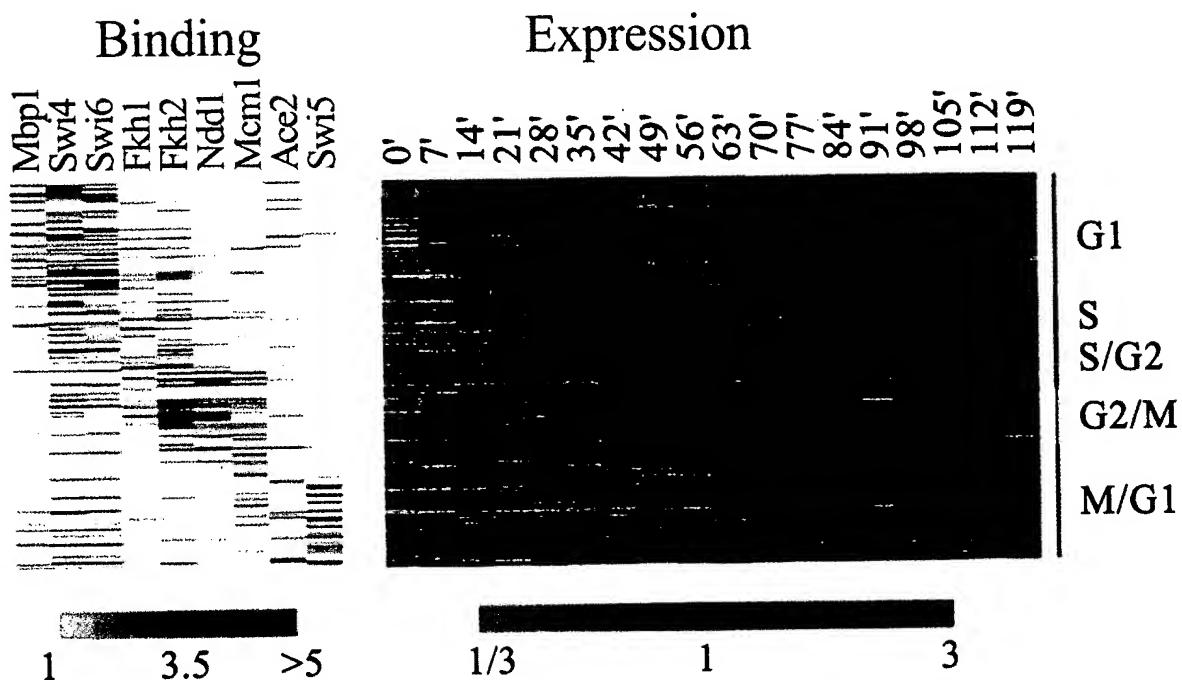


FIGURE 10A

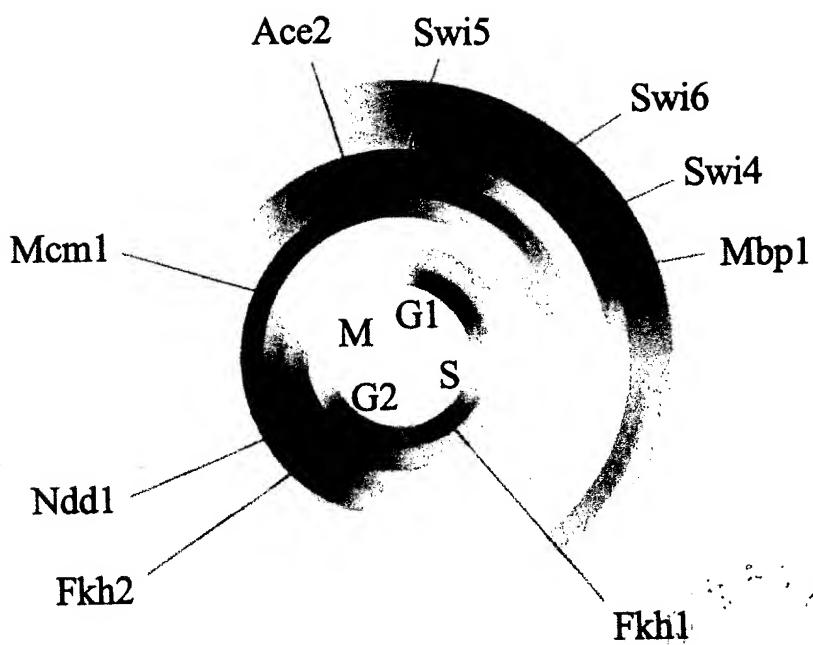


FIGURE 10B

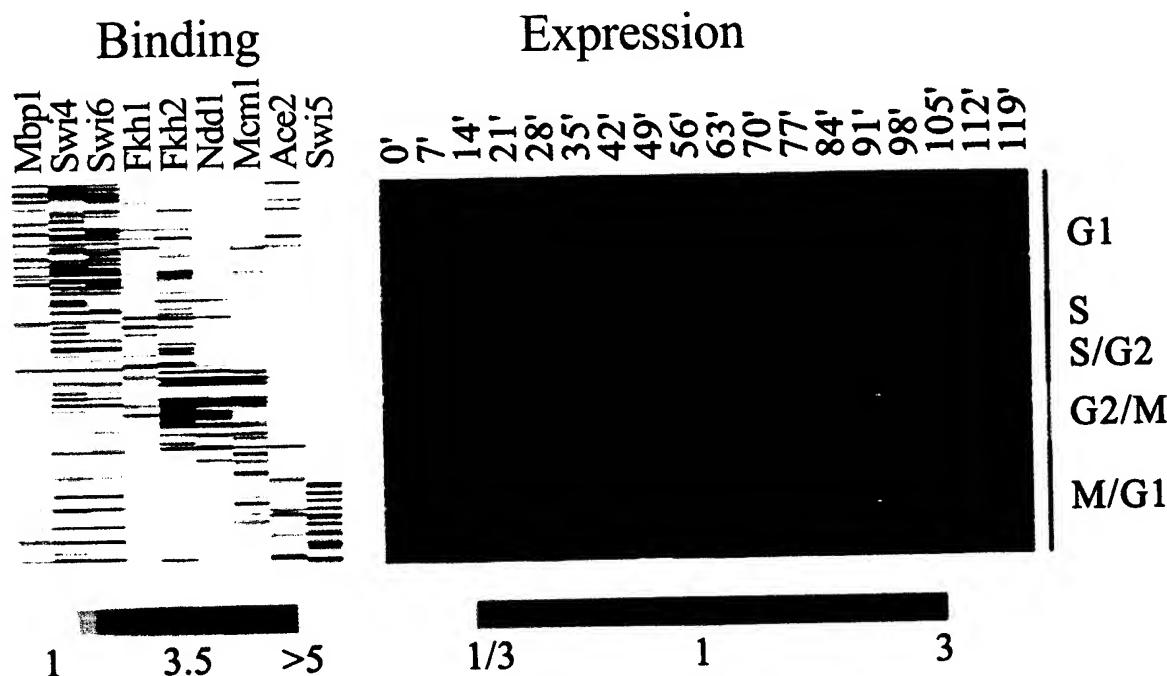


FIGURE 10A

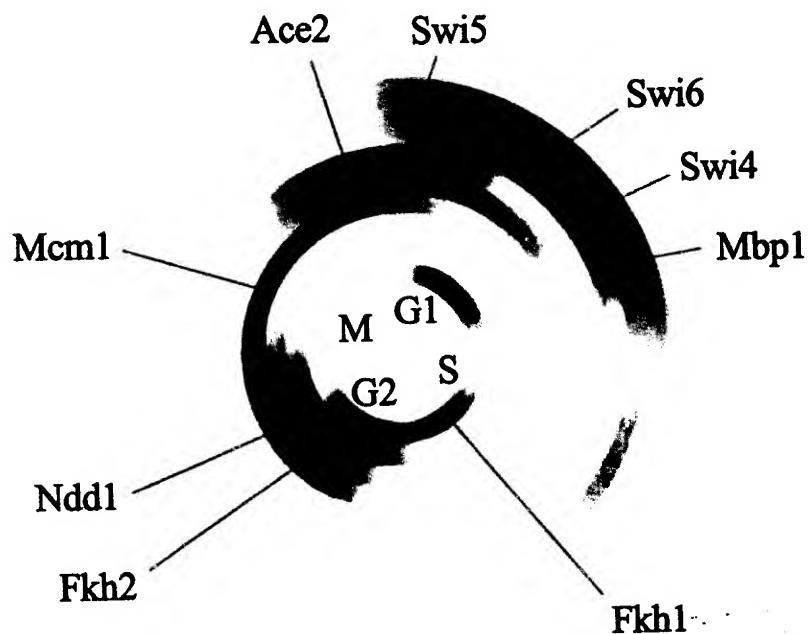


FIGURE 10B

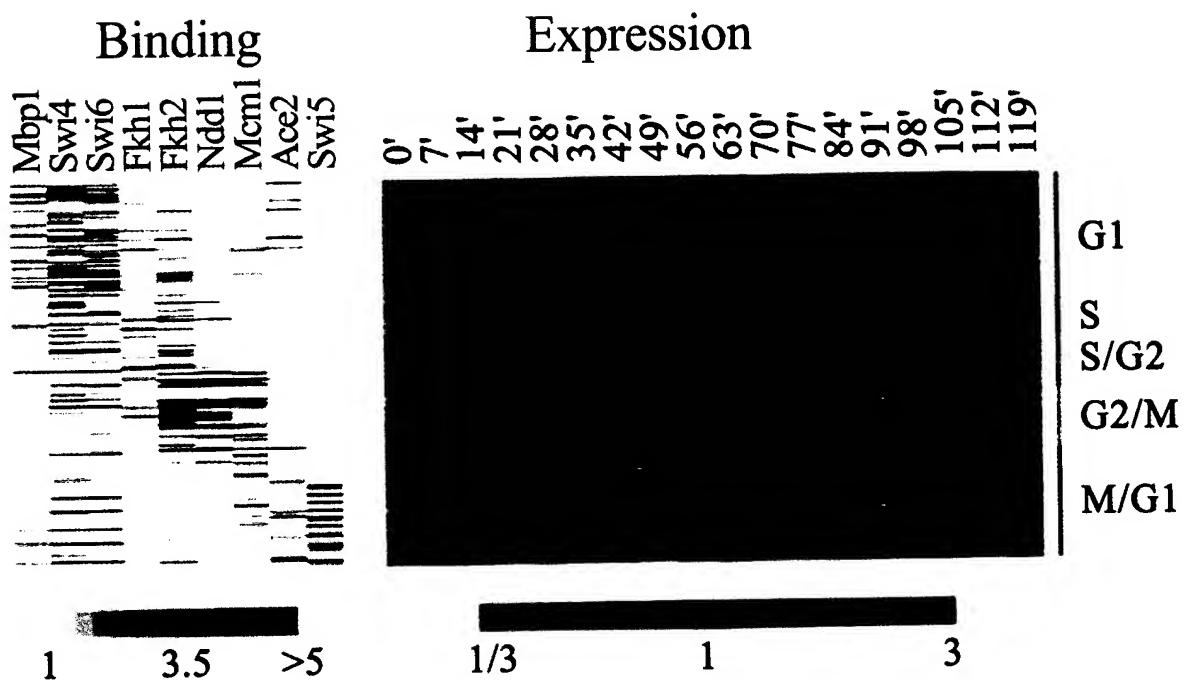


FIGURE 10A

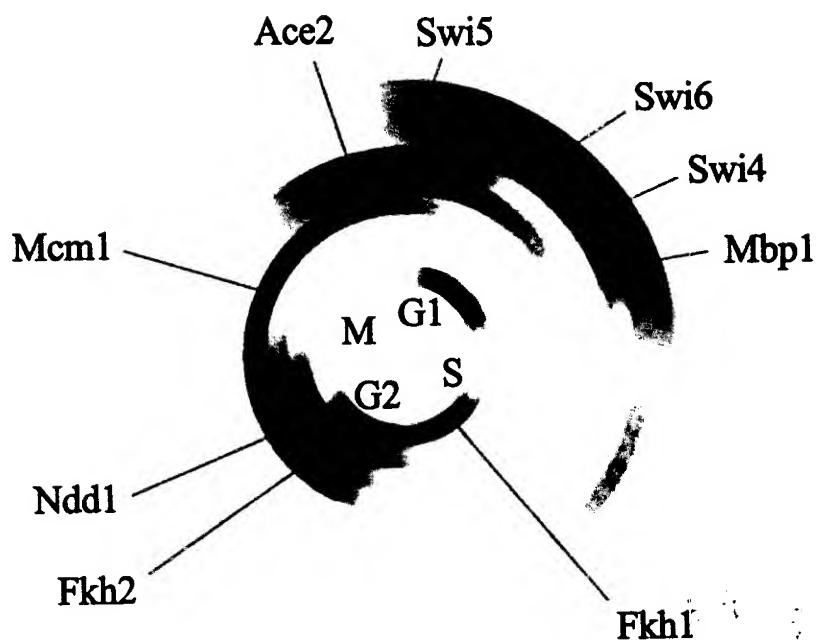


FIGURE 10B

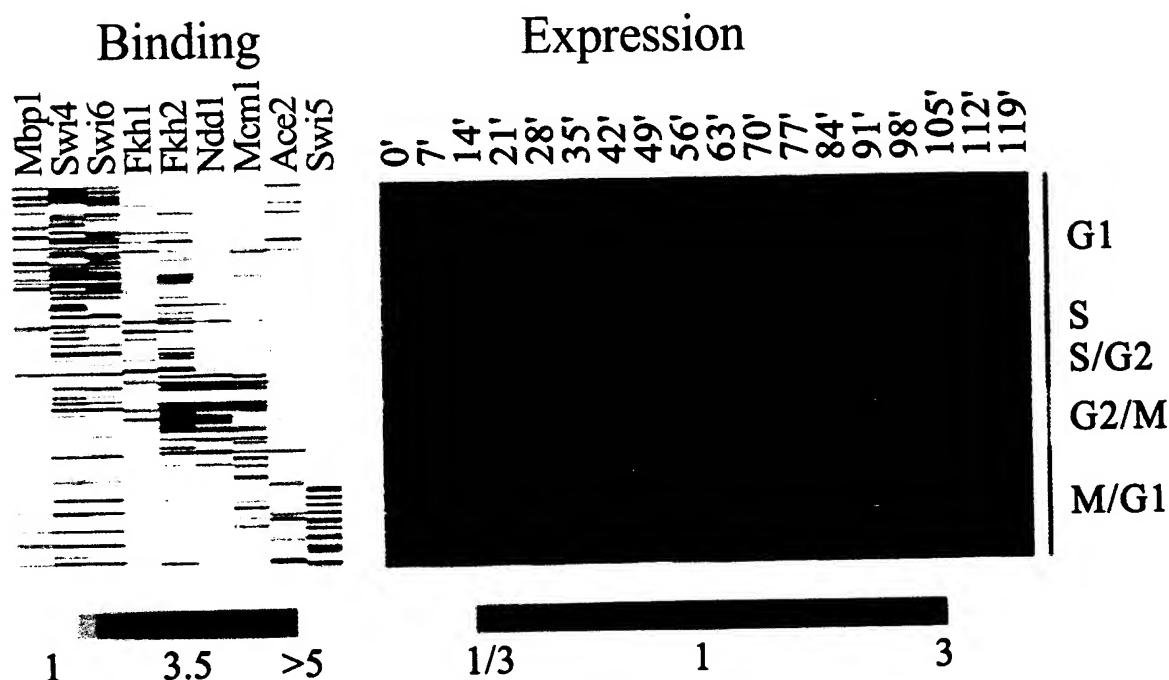


FIGURE 10A

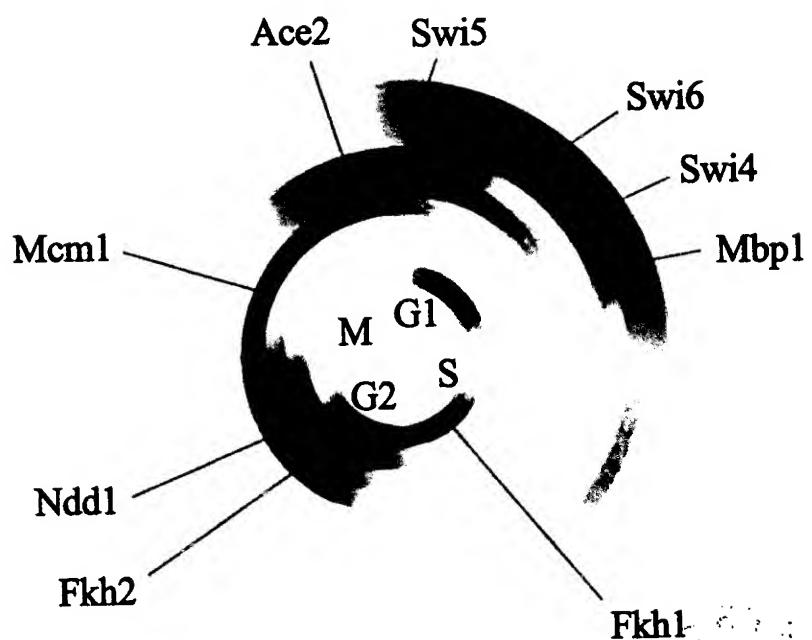


FIGURE 10B

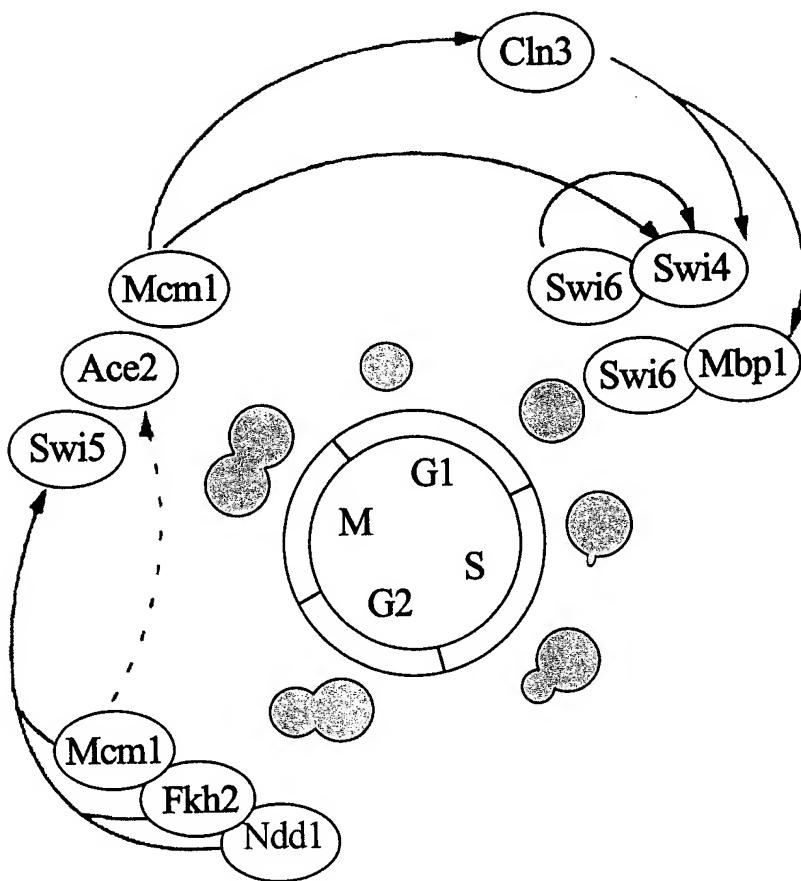


FIGURE 11A

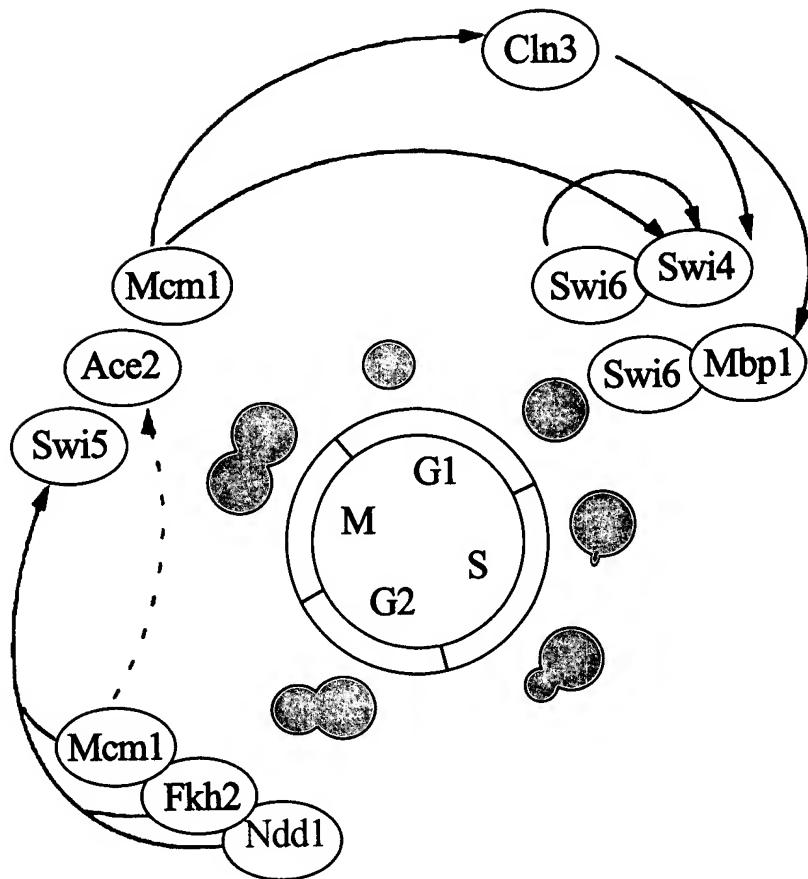


FIGURE 11A

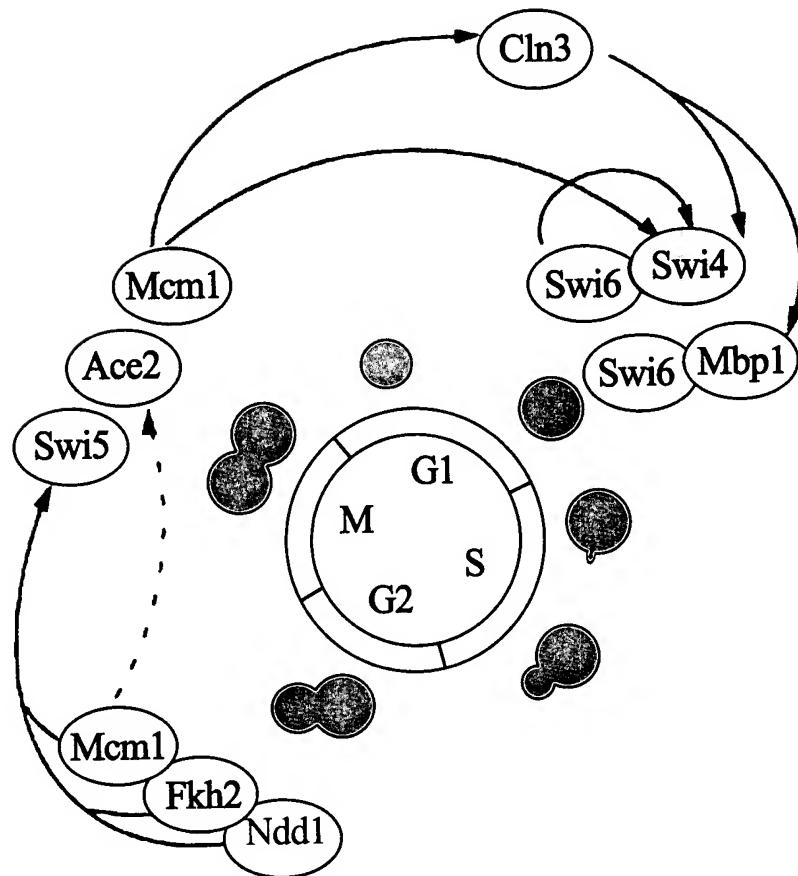


FIGURE 11A

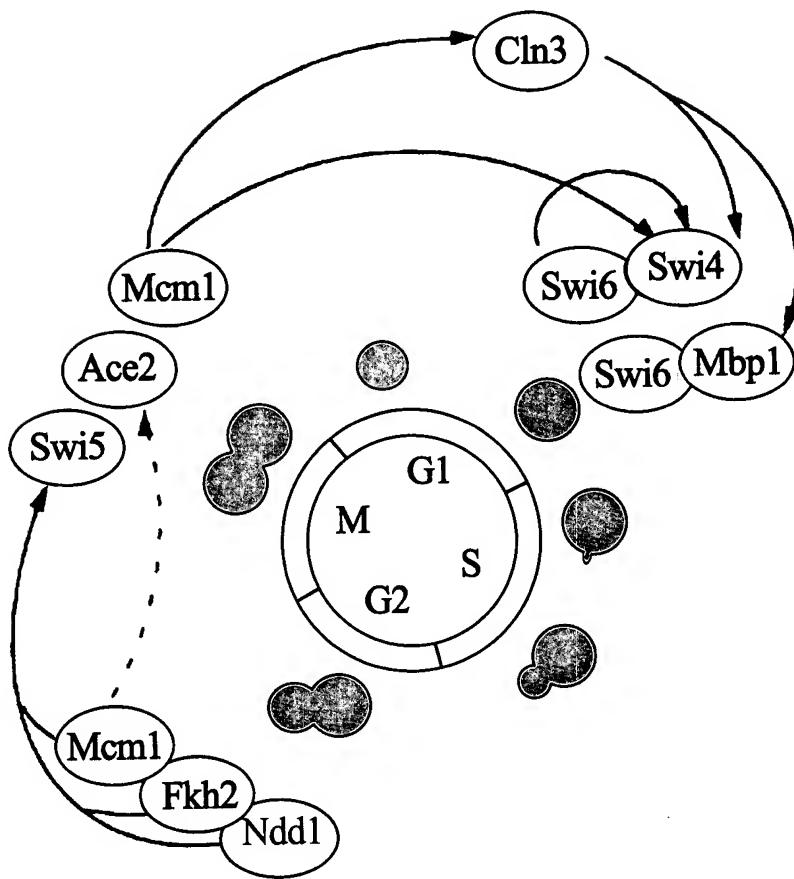


FIGURE 11A

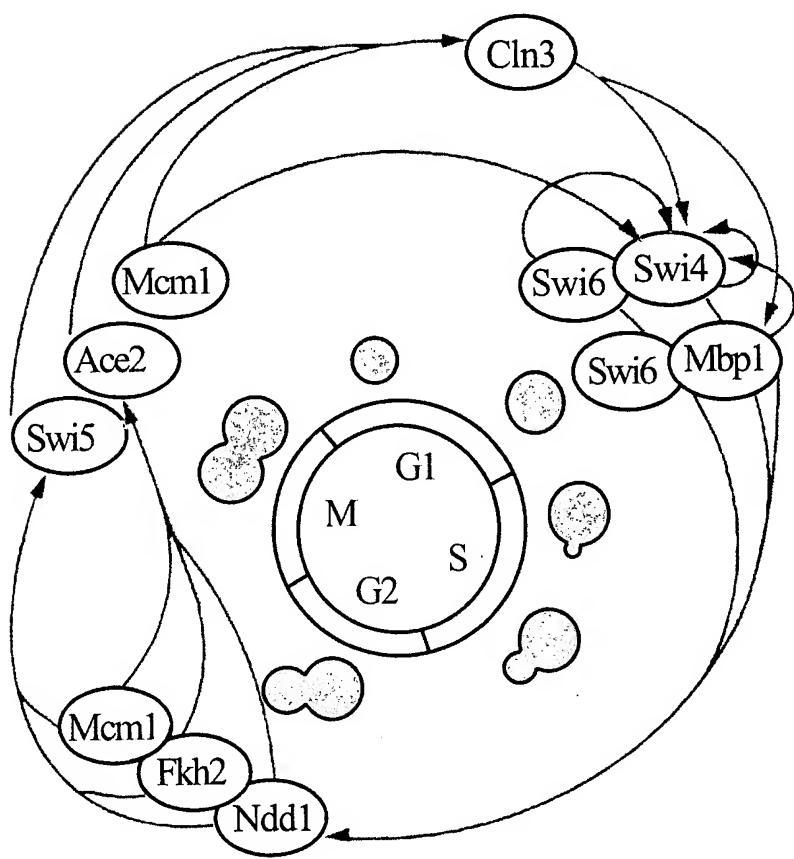


FIGURE 11B

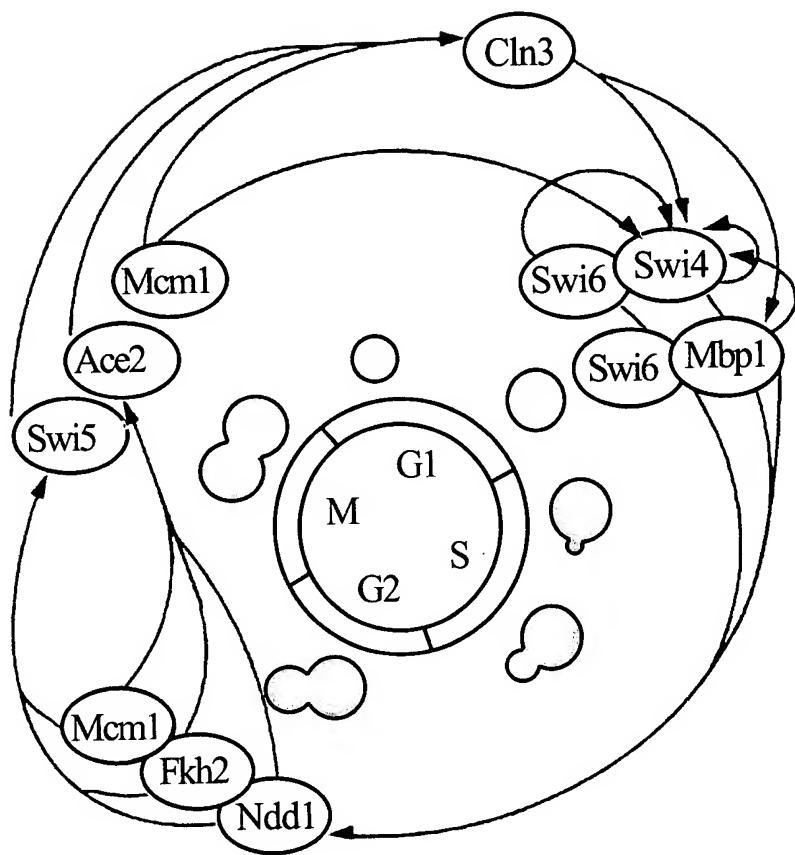


FIGURE 11B

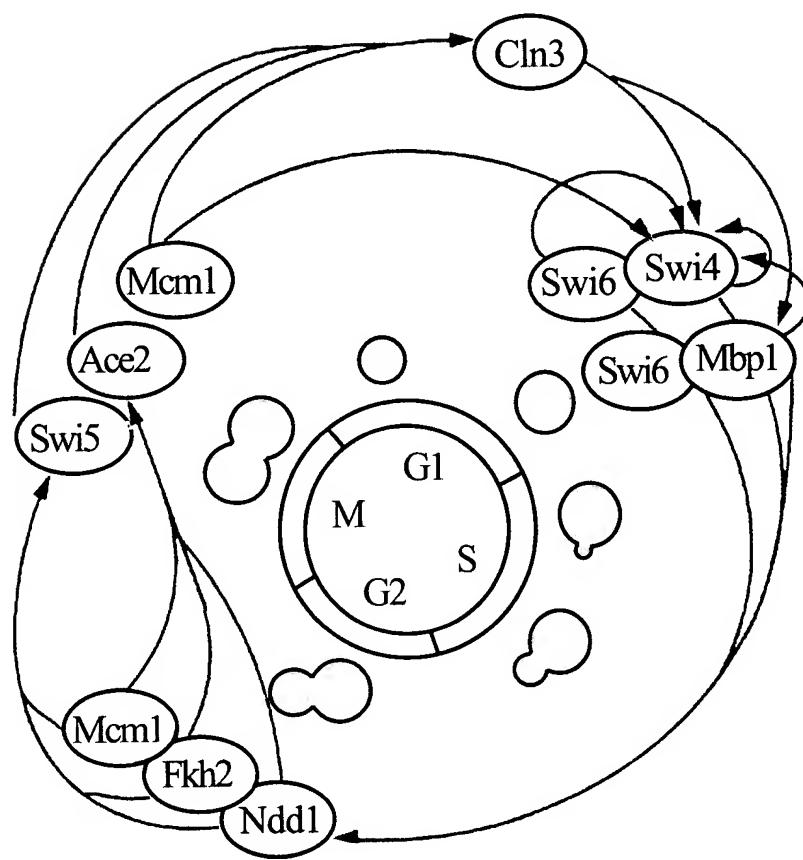


FIGURE 11B

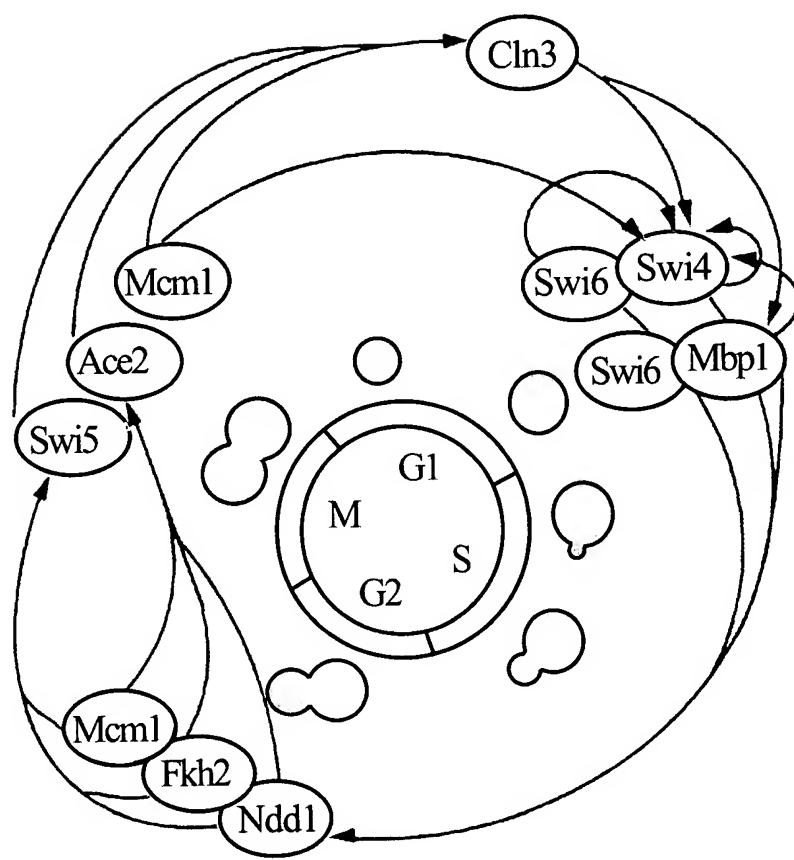


FIGURE 11B

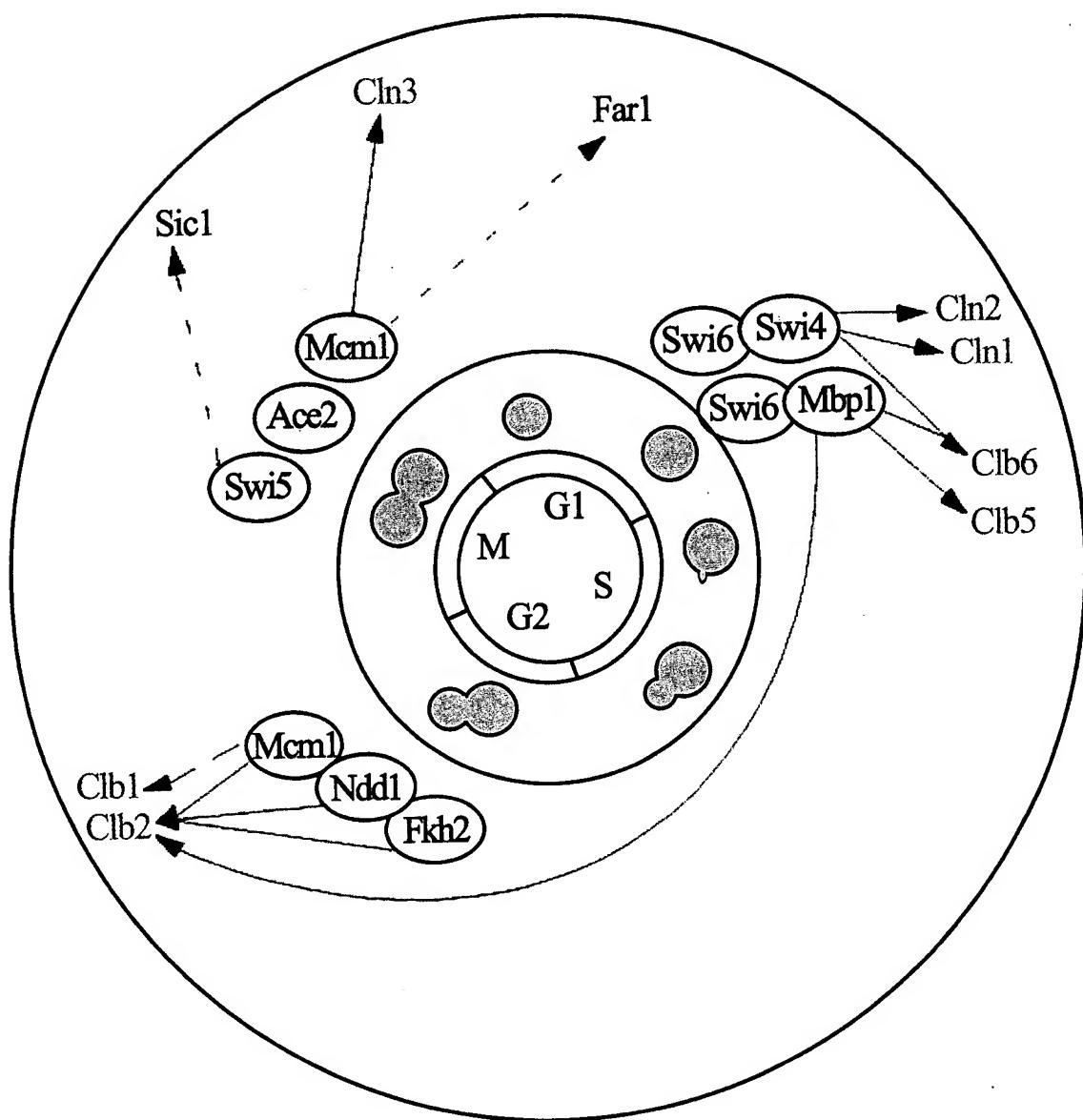


FIGURE 12A

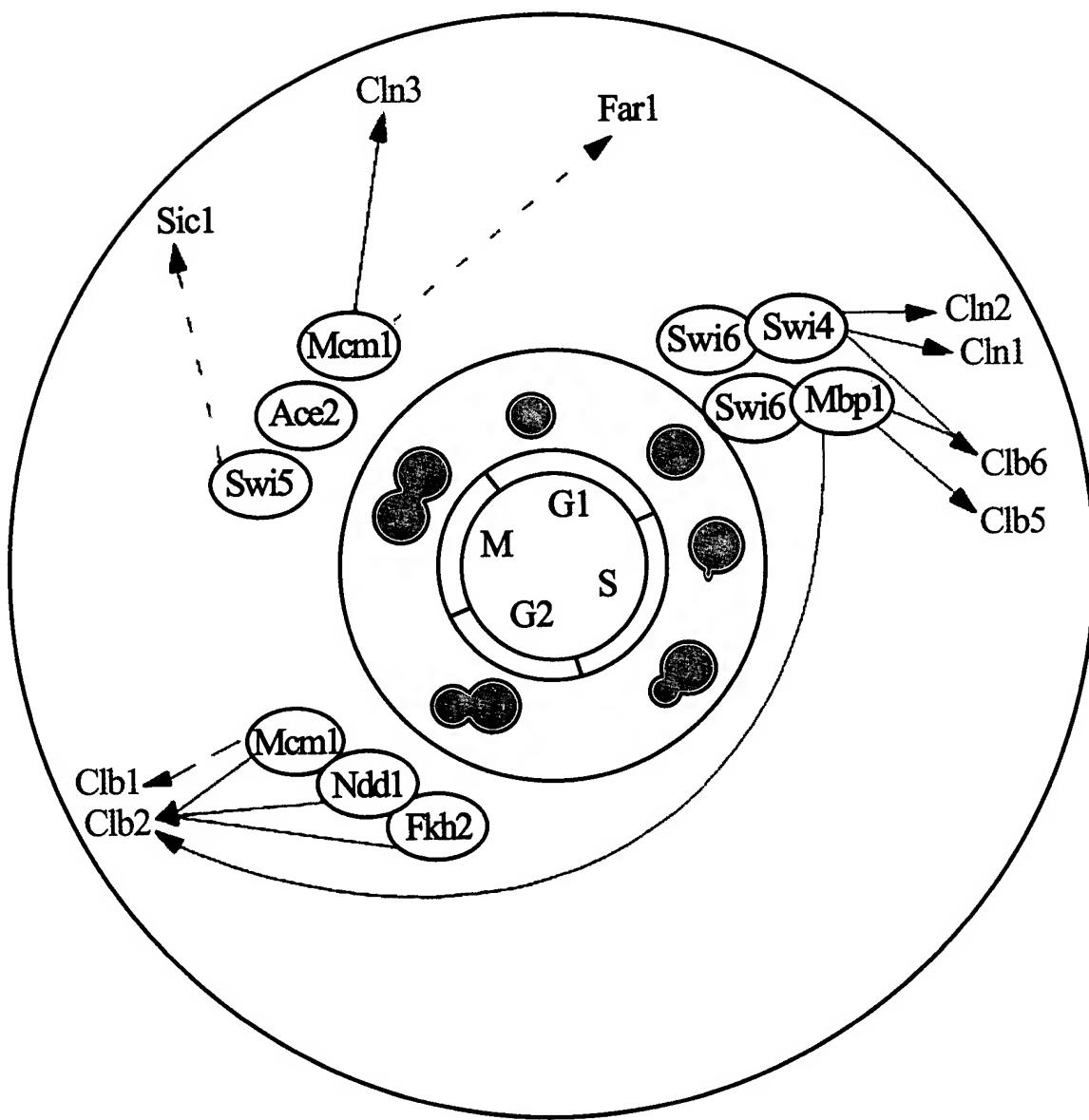


FIGURE 12A

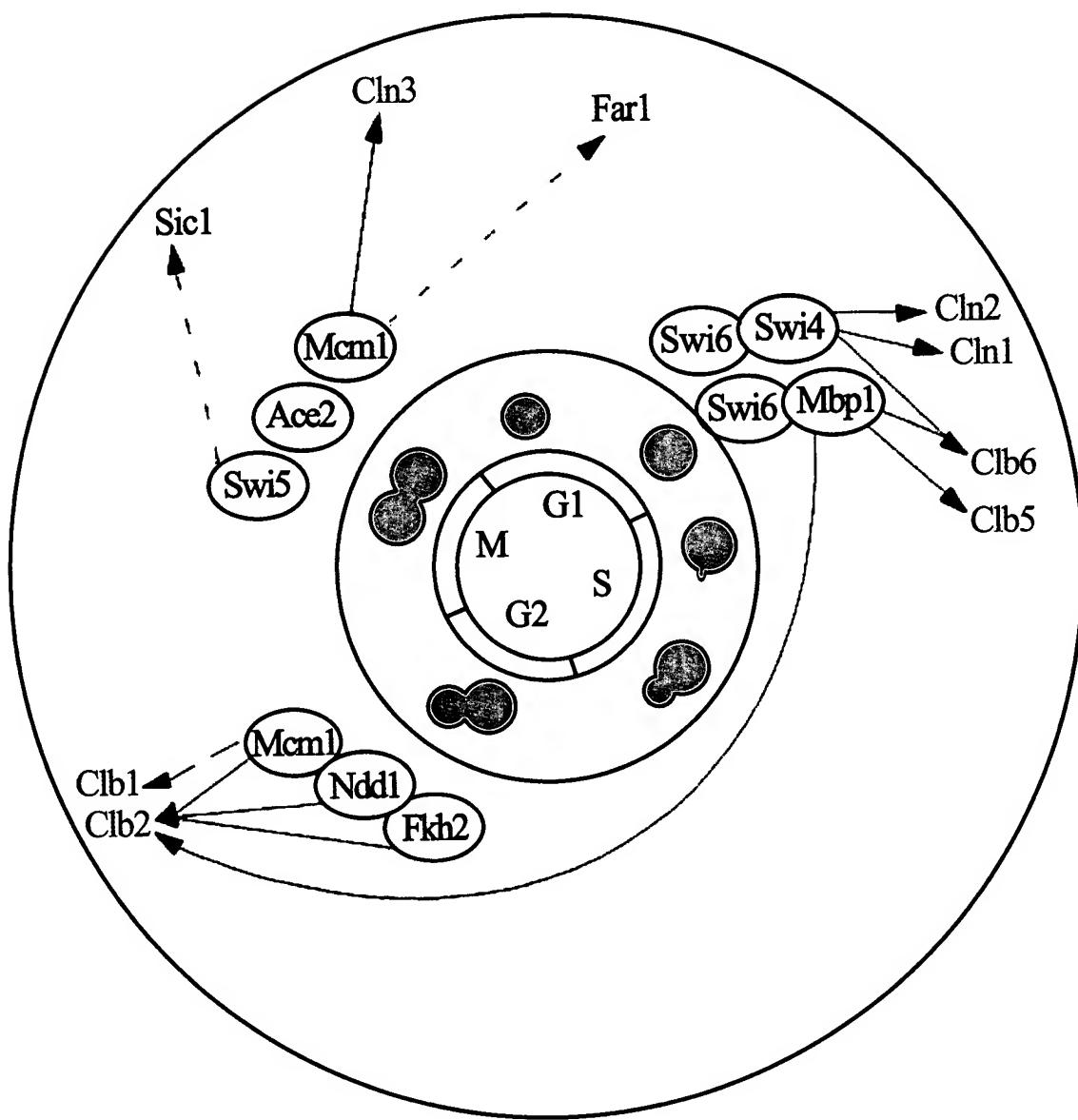


FIGURE 12A

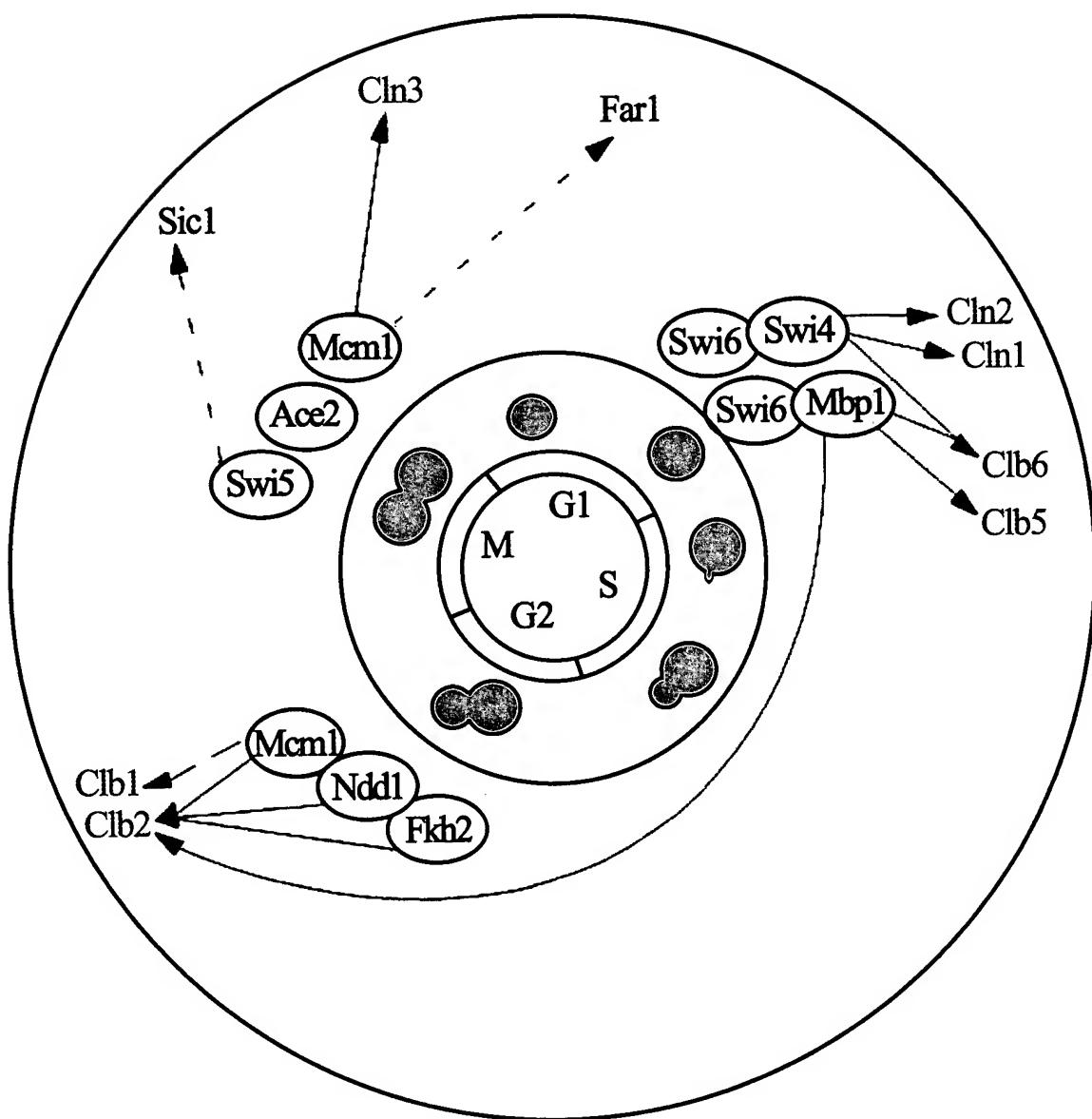


FIGURE 12A

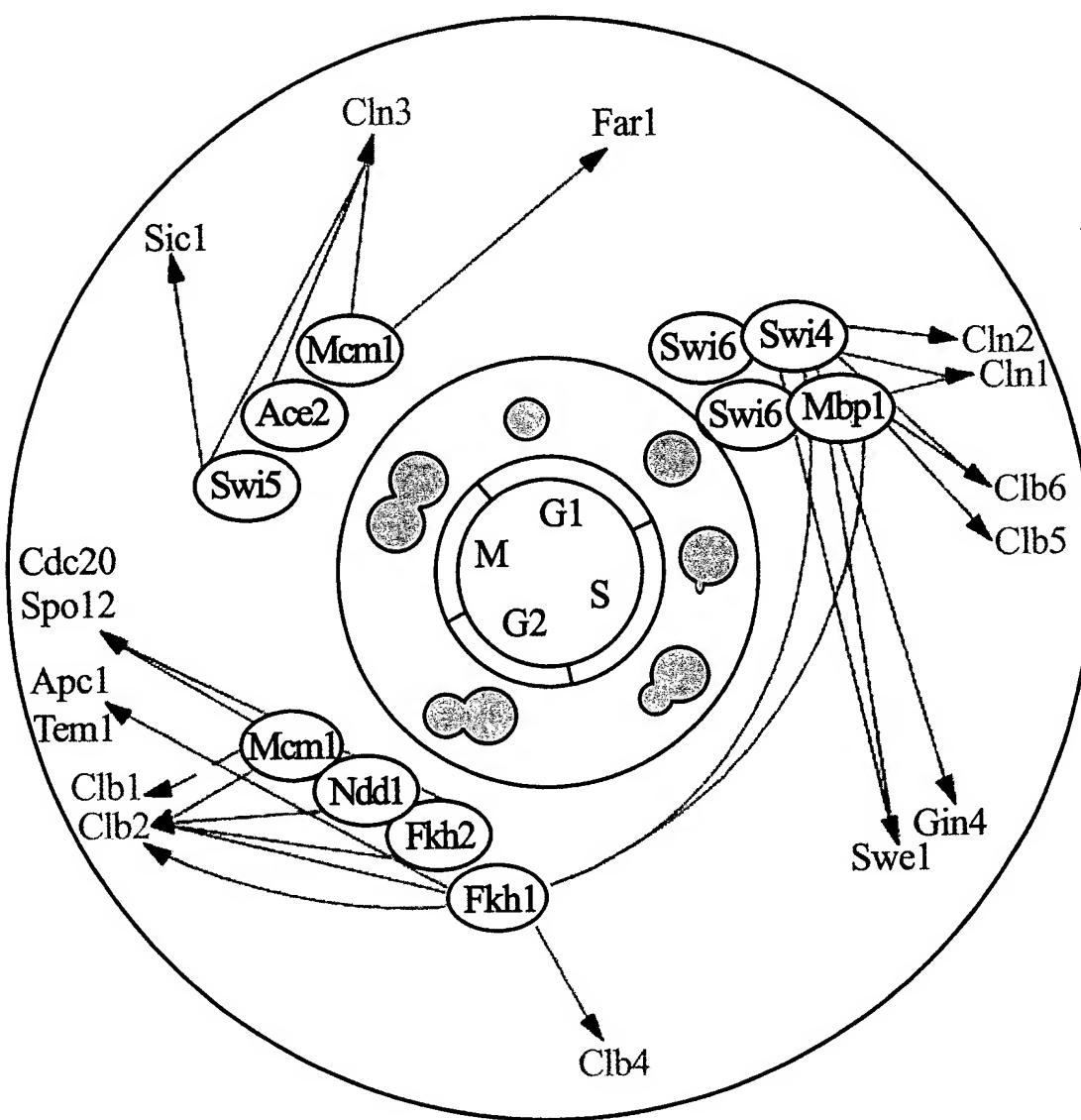


FIGURE 12B

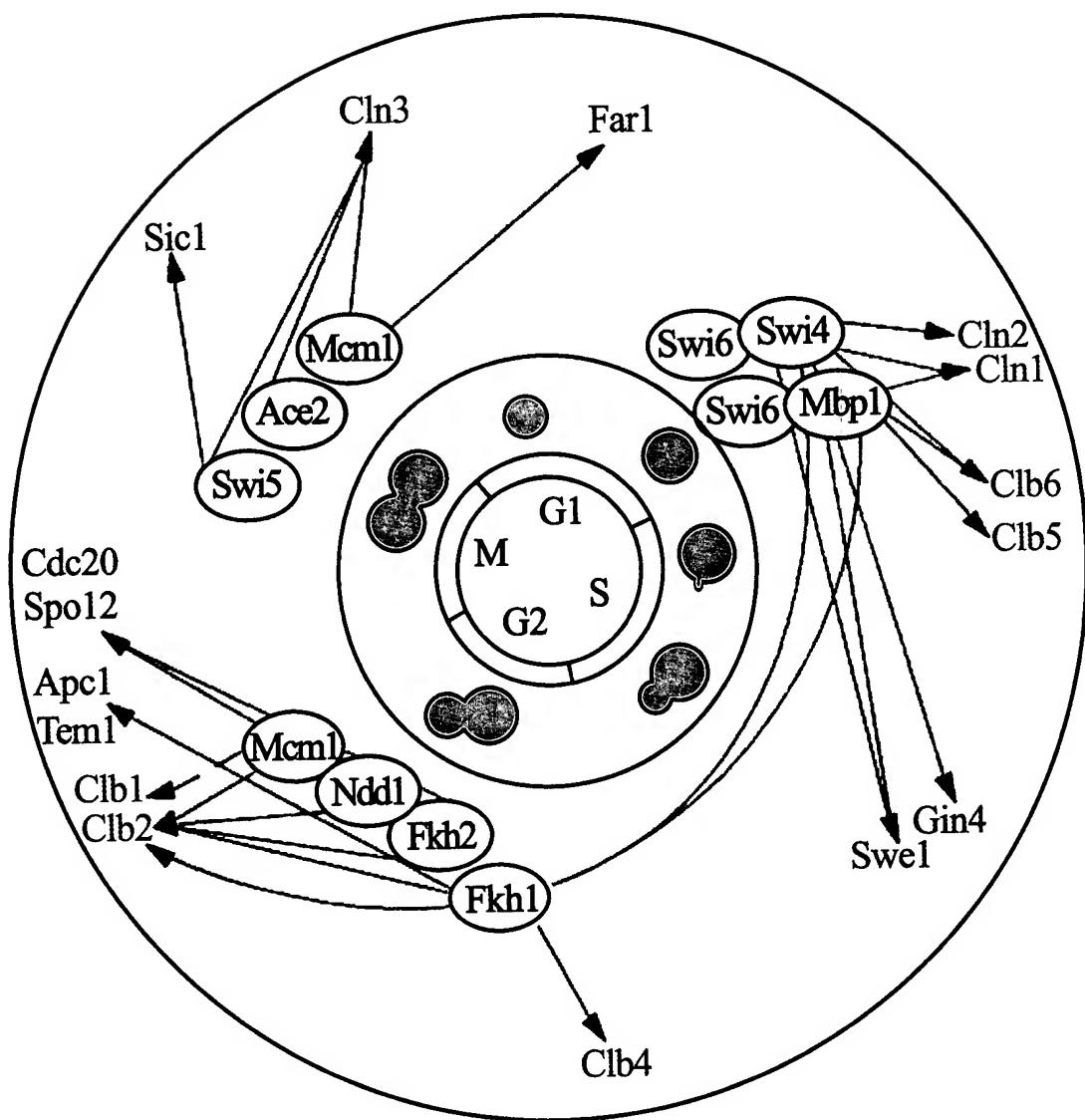


FIGURE 12B

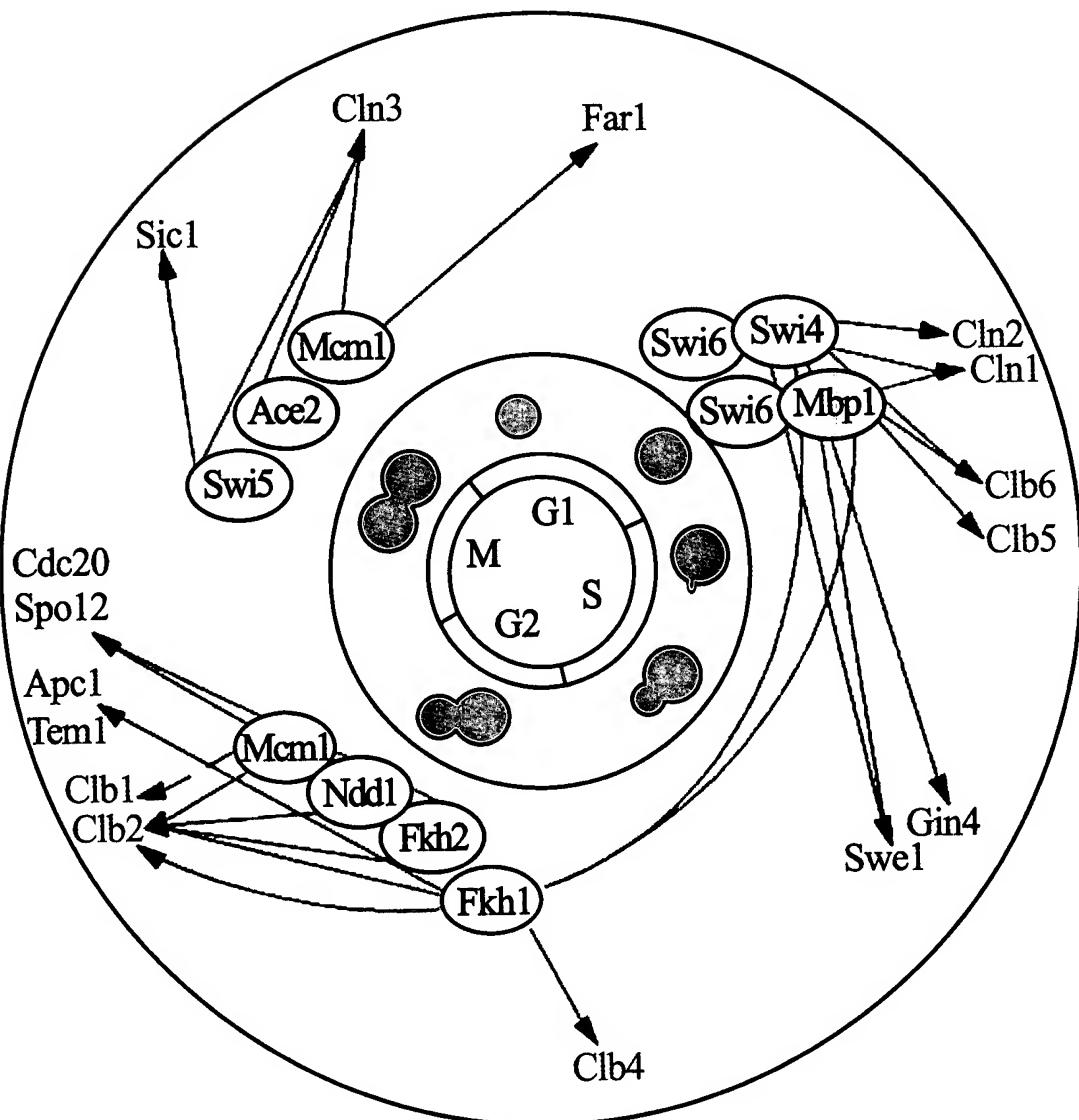


FIGURE 12B

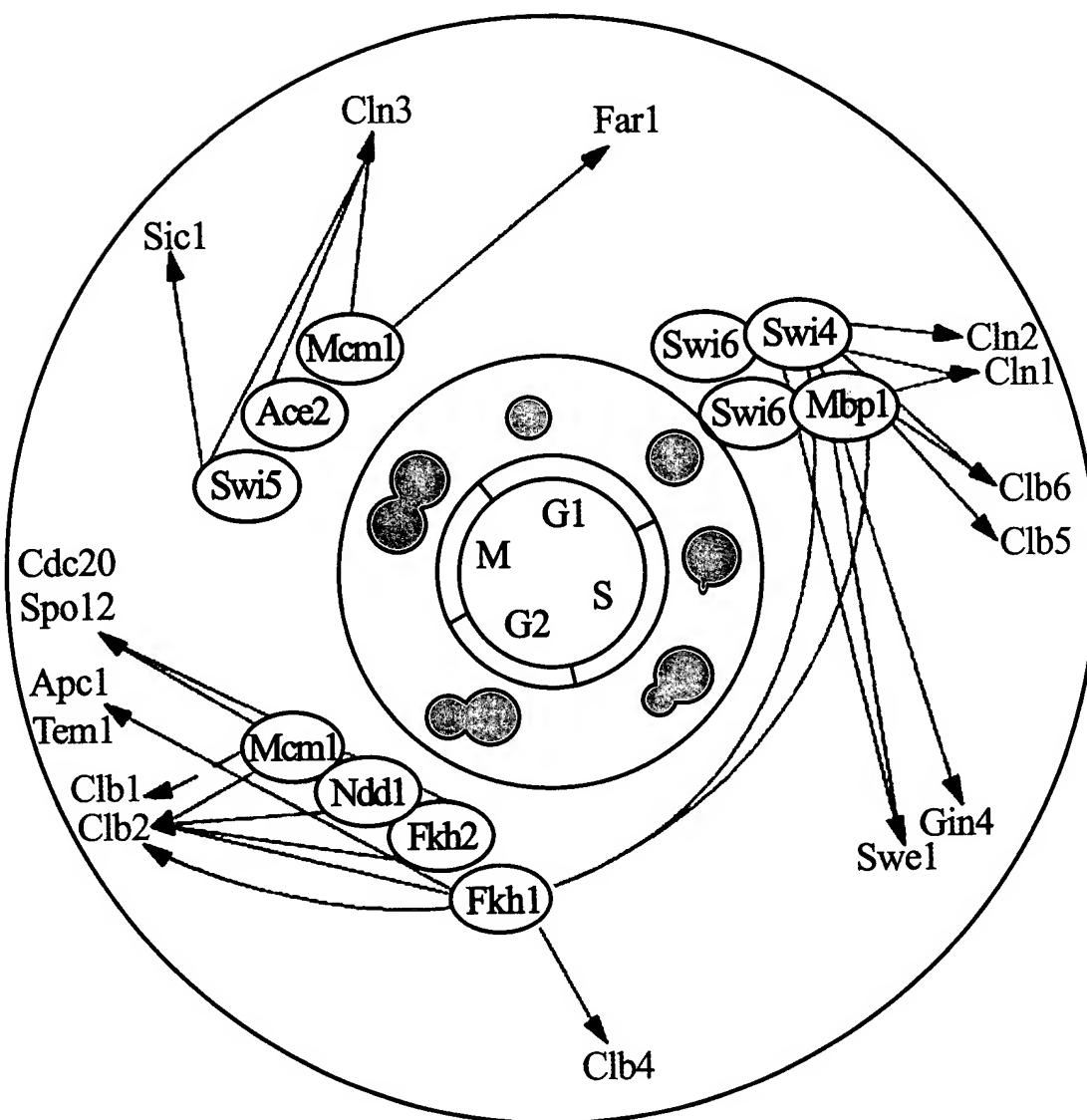


FIGURE 12B

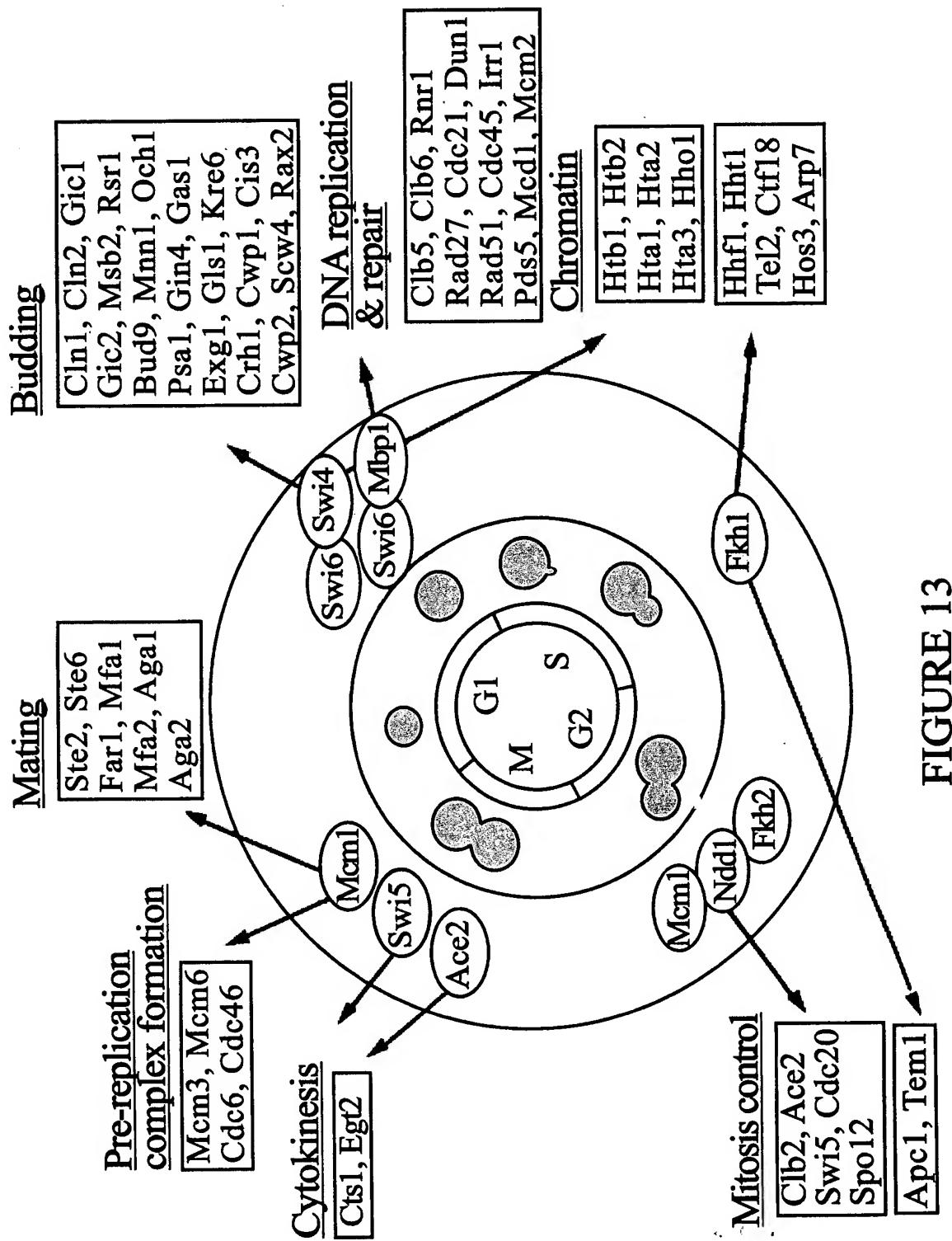


FIGURE 13

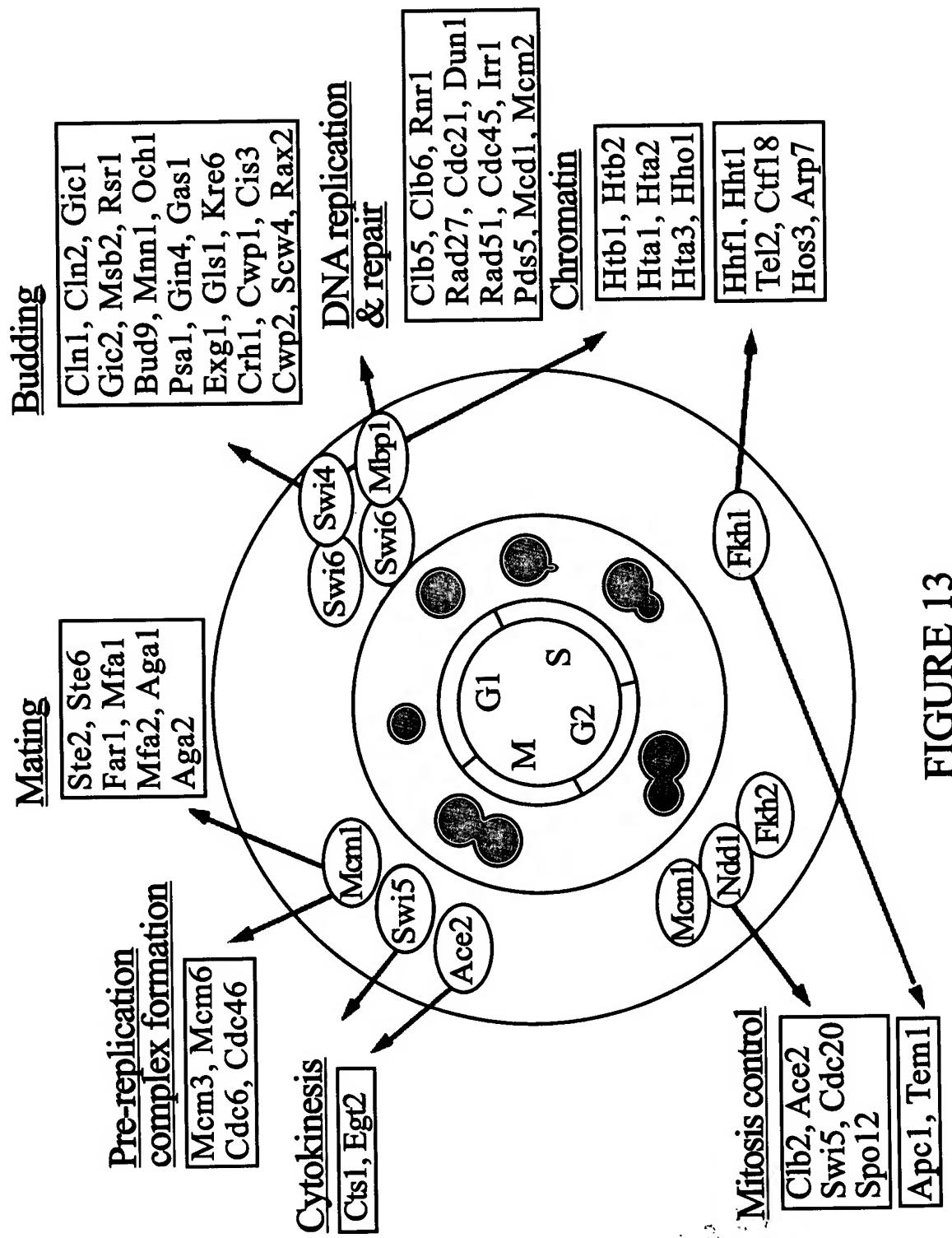


FIGURE 13

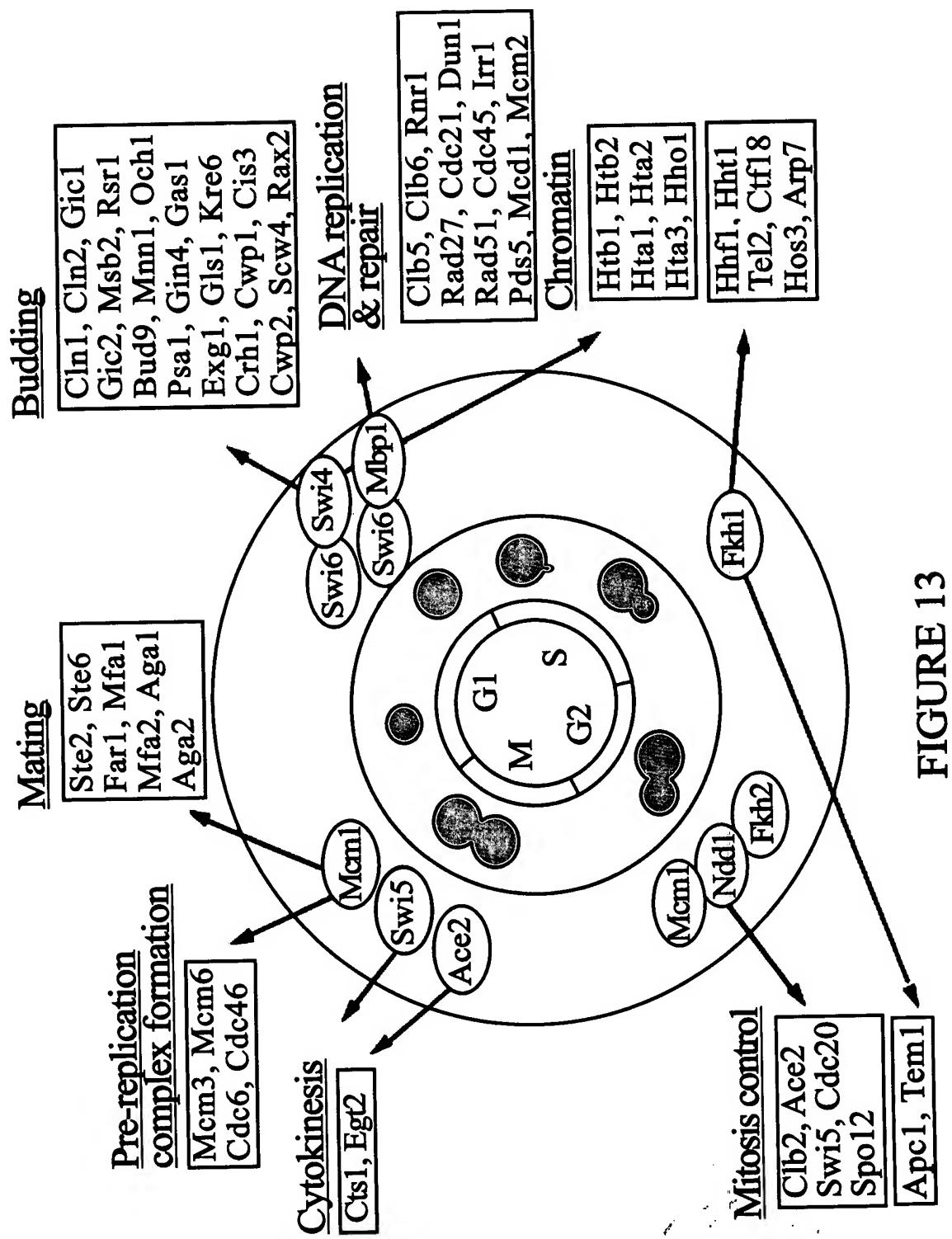


FIGURE 13

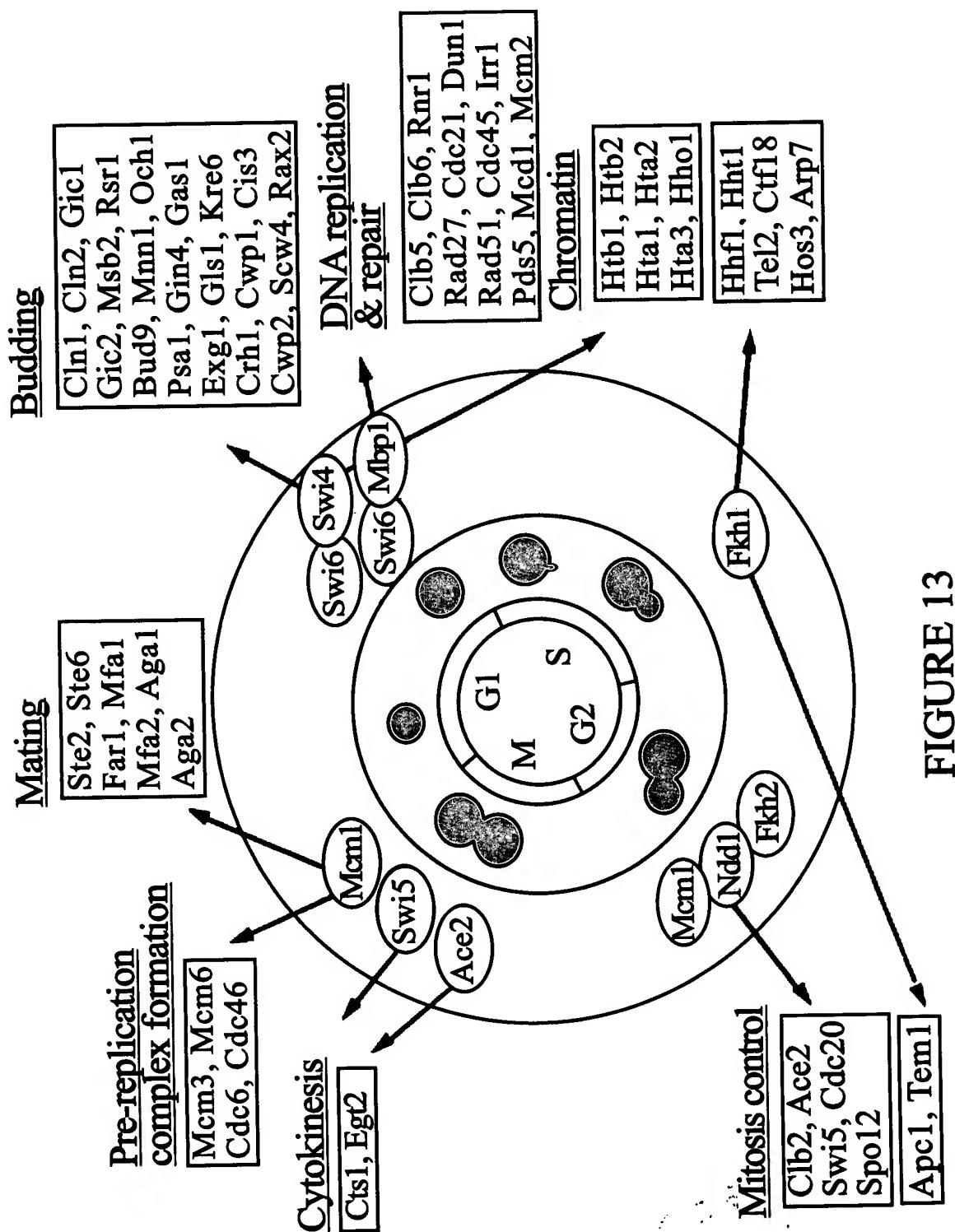


FIGURE 13

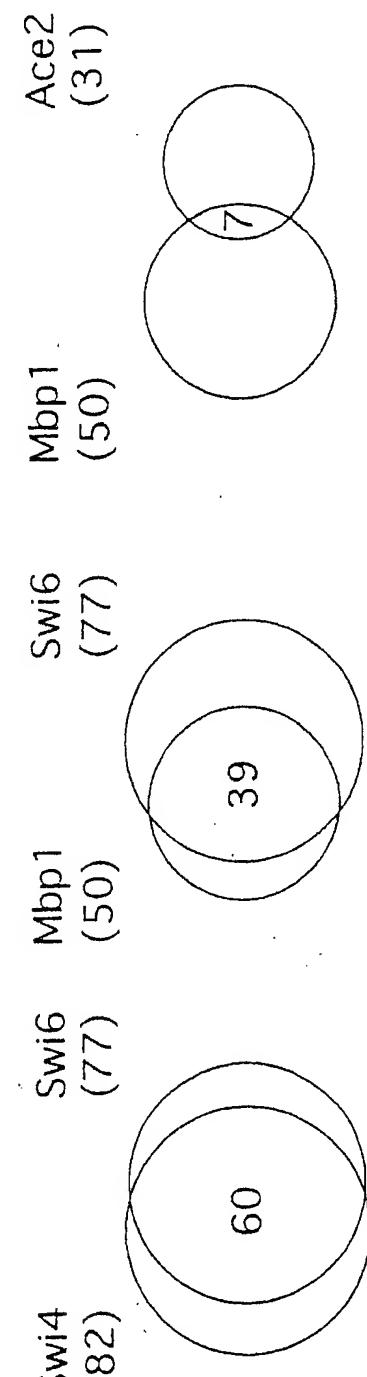
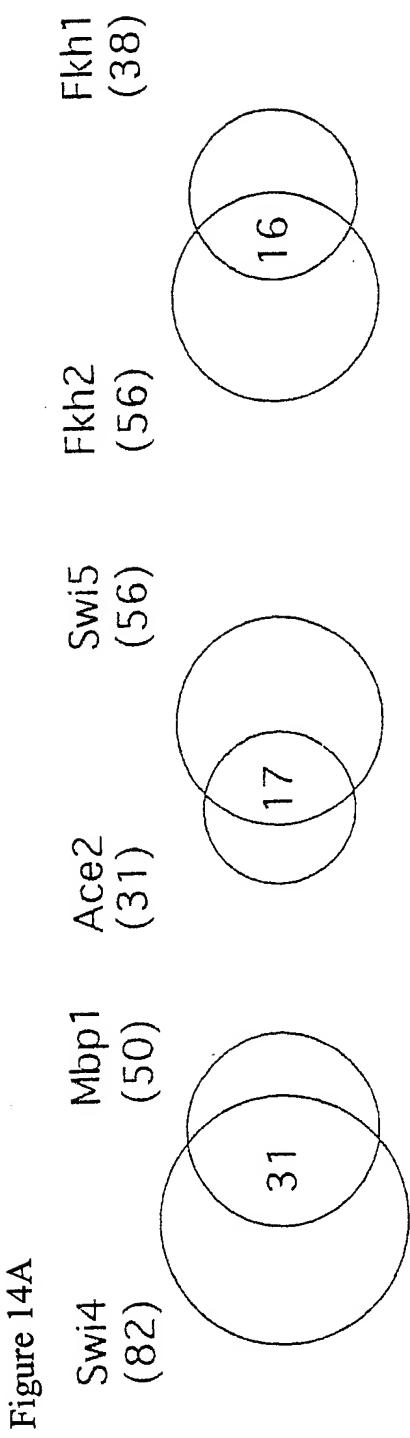


Figure 14C